



U.S. Department of Transportation

National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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DYNAMIC SCIENCE, INC.
Contract DTNH22-87-C-47169

SPECIAL INVESTIGATION PASSIVE BELT SYSTEM DSI-90-AB-05



TECHNICAL SUMMARY

CONTRACTOR:

Dynamic Science, Inc.

CONTRACT NUMBER:

DTNH-22-87-C-47169

CASE NUMBER:

DSI-90-AB-05



This two-vehicle collision occurred mid-week during late afternoon hours in late the partial, 1990 in a rural area of Michigan. The weather was cloudy, the temperature was in the mid 50's and the road was dry.

Vehicle 1 is a 1990 Buick LeSabre four-door Sedan, equipped with passive 3 point lap shoulder belts, and was being driven by a 71 year old male. The right front passenger was a 68 year old female. They were traveling the back roads for a leisurely drive and had entered the asphalt road from a two-lane gravel road to the west. Vehicle 1 was traveling easterly in the eastbound lane. Vehicle 2 is a 1980 Chevrolet Monte Carlo and was driven by a 19 year old male who was reportedly drinking beer while driving. The vehicle was allegedly traveling at a high rate of speed westbound on a two-lane rural asphalt road.

The driver of Vehicle 2 apparently lost control of his vehicle and swerved left directly into the path of Vehicle 1. At impact, the full frontal plane of Vehicle 1 struck Vehicle 2 in the vicinity of the right front fender and rearward to include the right front passenger door. Vehicle 2 rolled over the hood and top of Vehicle 1, struck the roadway on its top coming to final rest position on the vehicles left side (3/4 turn roll over).

The passenger in Vehicle 1 was declared deceased at the scene. The driver was admitted to a hospital with injuries of an unknown nature and severity. The driver of Vehicle 2 was declared deceased at the scene. He was not wearing his available lap and shoulder belt.

Both vehicles were towed from the scene due to damage and were considered total losses.

The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the National Highway Traffic Safety

DYNAMIC SCIENCE, INC. HEAVY TRUCK ACCIDENT INVESTIGATION CASE NUMBER: DSI-90-AB-05

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Appendices:

- A. Field Forms and Airbag Supplement
- B. Police Accident Report

ACCIDENT DATA:

Location:
Area/Type:
Date/Time:

Accident Type:
Injury Severity
(striking vehicle):
Injury Severity
(struck vehicle):

AMBIENCE:

Light Conditions: Atmosphere: Precipitation: Road Surface:

ROADWAY:

Type:
Width:
Traffic Density:
Median:
Edge:

Surface:
Co-efficient of
Friction:
Horizontal
Alignment:
Vertical Alignment:
Speed Limit:
Markings:

Michigan .

Rural Late afternoon/late

1990 Right angle

Fatal

Fatal

Daylight

Cloudy, light winds None Dry

Vehicle 1 and Vehicle 2

2-Lane Local
20' (10' travel lanes)
Light
None
Unimproved, 3.0' gravel
shoulder
Asphalt

Estimated 0.65

Straight
Unknown
Unknown
Solid yellow center lines
separating the east/west lanes
and denoting a no passing
zone.

VEHICLES:

Description:

Securiflex Windshield: Windshield Damage/Source:

Fleet:

Tow Status:

Reported Defects: Previous Repairs: Active Restraints:

Passive Restraints:

Description:

Securiflex Windshield:

Windshield Damage/Source:

Fleet:

Tow Status:

Reported Defects: Previous Repairs:

Active Restraints:

Passive Restraints:

Vehicle 1

1990 Buick LeSabre, 4-door

Unknown Holed/hood

No

Towed due to damage

None Unknown

Lap shoulder belts rear out-

board seating position, lap belt only, center seating

position.

Non-motorized 3 point passive

lap/shoulder belts, outboard right front and left front

seating position.

Vehicle 2

1980 Chevrolet, Monte Carlo

Unknown

Shattered/unknown

Towed due to damage

None

Unknown

Three-Point Lap/Torso Belt

VEHICLE DAMAGE: Vehicle 1 Vehicle 2

Object Struck:

Event Number:

CDC:

Estimated Maximum

Crush:

Interior Damage:

Vehicle 2

One

11FDEW2

Unknown Unknown Vehicle 1

One

02RDEW3

Unknown Unknown

VELOCITY ESTIMATES:	Vehicle 1	Vehicle 2
Impact Speed:	Unknown	Excessive, per witnesses
Total Delta V: Longitudinal	Unknown	Unknown
Delta V:	Unknown	Unknown
Lateral Delta V:	Unknown	Unknown
Energy Dissipated:	Unknown	Iinknown

COLLISION SEQUENCE:

Pre-Crash:

Vehicle 1, a 1990 red Buick LeSabre had been traveling southbound on a two-lane gravel roadway. Upon reaching the intersection with the asphalt roadway, the driver of Vehicle 1 turned left, entering the east-bound travel lanes and heading toward Vehicle 2.

Vehicle 2, a 1980 red Chevrolet Monte Carlo was traveling westbound on a two-lane, two-way asphalt paved roadway. The driver of Vehicle 2, lost control and allowed the vehicle to enter a counter clockwise rotating skid and crossed the center line into the path of Vehicle 1.

Crash:

At impact #1, the frontal plane of Vehicle 1 struck the right side plane of Vehicle 2. Vehicle 2 rotated from right side to left side over the hood and roof of Vehicle 1 and struck the ground on its top (impact #2-V2).

Post Crash:

Vehicle 2 continued in its rollover configuration and came to final rest position on its left side. At final rest, Vehicle 2 was facing southwest approximately 15.0 feet south of the eastbound lane edge. Vehicle 1 had rotated approximately 150 degrees clockwise and at final rest position was approximately 20.0 feet south of the eastbound lane edge. The right front passenger of Vehicle 1 had expired at the scene. The driver of Vehicle 1 was transported to a hospital and admitted for treatment.

The driver of Vehicle 2 had expired at the scene.

Vehicle 1

Driver Activity:

The elderly driver of Vehicle 1 was apparently taking a leisurely ride on country roads prior to the crash. He recalls turning left at the intersection but cannot

recall crash events.

Vehicle 2

Driver Activity:

The driver of Vehicle 2 was traveling westbound in the westbound lane reportedly at a high rate of speed when the vehicle suddenly swerved to his left, apparently out of control. The police report indicates that the driver was drinking beer at the time of the crash. The driver was deceased at the scene of the crash.

Scene Clearance:

The driver of Vehicle 2 and the passenger in Vehicle 1 were transported to area funeral homes for autopsy and burial. The driver of Vehicle 1 was transported to a local hospital and admitted for treatment. Both vehicles were towed from the scene and later

declared total losses.

DRIVER AND OTHER OCCUPANTS:

		Vehicle 1		
	<u>Driver</u>		<u>Passenger</u>	
Age/Sex: Seated Position:	71/Male Left front		Right front	
Height:	Unknown		Unknown Unknown	
Weight:	Unknown		Unknown	
Physical State:	Unknown		Unknown	
Body Posture:	Unknown		Unknown	
Hand Location:	Unknown		Unknown	
Foot Location:	Unknown			
Active Restraint			None	
Usage:	None		Lap/shoulder	belts
Passive:	None		- '	
Additional			None	
Occupants:	One			
-	68/Female			

Vehicle 2

<u>Driver</u>

Age/Sex: Seated Position:

Height:
Weight:

Physical State:

Body Posture: Hand Location: Foot Location:

Active Restraint

Usage: Additional

Occupants:

19/Male

Left front Unknown

Unknown

Under the influence of alcohol

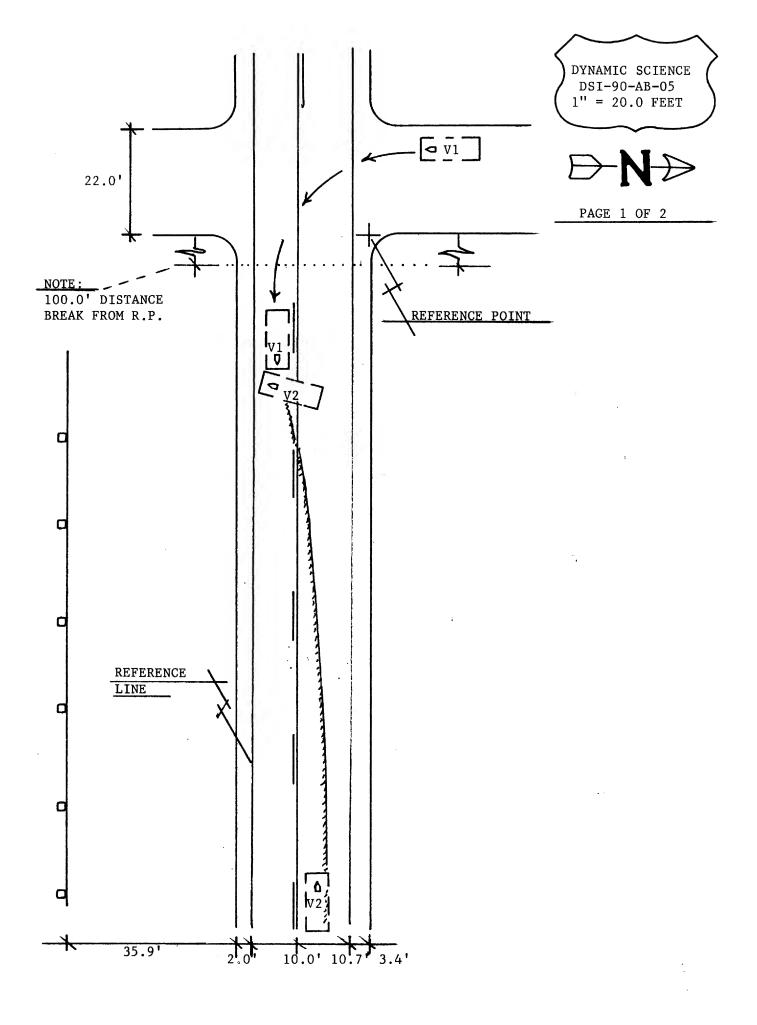
Unknown Unknown Unknown

None

None

INJURIES:

Injury	OIC Code	Source
V1, Driver Unspecified injuries	UUUU-7	Steering wheel hub
V1, Right Front Passenger Fracture, base of skull Fractures, right and left ribs	L HIFS-3 CBFS-3	Instrument panel Seat belts
V2, Driver Unspecified injuries	บบบบ-7	Unknown



DYNAMIC SCIENCE
DSI-90-AB-05
1" = 20.0 FEET



PAGE 2 OF 2

REFERENCE POINT = 100.0 FEET WEST

0

COLLISION MEASUREMENTS

case number --- DSI-90-AB-05

Reference point: INTERSECTING ROAD EDGES - NE CORNER

Reference Line: SOUTH ROAD EDGE - EAST/WEST ROAD

*MEASUREMENTS & DIAGRAM FROM INVESTIGATORS FIELD NOTES

DATA PO	OINT	LONGITUDINALS	LATERALS
BEGIN V2 CCW SKIDMARK		E235.5	N15.1
V2 SKID PROFILE		E220.5	N15.8
		E205.5	N15.8
·		E188.3	N15.3
		E172.3	N14.4
		E158,5	N13.1
		E138.5	N10.9
		E122.2	N7.9
ESTIMATED POI V1 V2		E122.2	N7.9
FRP V2 (ON LEFT SID	E)		
	L/F	E83.1	S13.5
	L/R	E76.5	S18.1
FRP V1	L/R	E58.5	S18.1
	L/F	E50.7	S20.1
	P		

PHOTOGRAPH INDEX CASE NO. DSI-90-AB-05

РНОТО	VEHICLE NO.	ORIENTATION	SUBJECT
1-2	1	SOUTH	PATH OF V1
3	2	WEST	PATH OF V2
5-33	1	CCW	EXTERIOR
	1		PHOTOS 6-11, DETAIL HOOD DAMAGE TO
			WINDSHIELD
	1		PHOTOS 12-14, SKIN, DRIVER CONTACT
			WITH WINDSHIELD
	. 1		PHOTO 16, DETAIL, TOP DAMAGE FROM
			CONTACT WITH AIRBORNE V2
	1		PHOTO 17, DETAIL, LEFT FRONT DOOR
			FRAME DAMAGE FROM CONTACT WITH
			AIRBORNE V2
	1		PHOTOS 18-19, DETAIL, TOP DAMAGE
			FROM CONTACT WITH AIRBORNE V2
	1		PHOTO 20, DETAIL, LEFT FRONT DOOR
			FRAME DAMAGE FROM CONTACT WITH
		-	AIRBORNE V2
	1		PHOTO 21, DETAIL, TOP DAMAGE FROM
			CONTACT WITH AIRBORNE V2
34-62	2	CCW	EXTERIOR
	2		PHOTO 52, DETAIL, RIGHT A PILLAR
	2		PHOTOS 53-56, V2 DAMAGE, CONTACT WITH
			V1 WHILE V2 AIRBORNE AND V2 GROUND
			CONTACT DURING ROLLOVER

PHOTOGRAPH INDEX CASE NO. DSI-90-AB-05

РНОТО	VEHICLE NO.	ORIENTATION	SUBJECT
	2		PHOTOS 57-60, RIGHT FRONT WHEEL
			BROKEN FROM AXLE AT INITIAL
			IMPACT WITH V1
	2		PHOTOS 61-62, RIGHT FRONT TIRE,
			SKID ABRAISONS AND RED PAINT
			RESIDUE FROM INITIAL IMPACT WITH
			V1
			W
	3		
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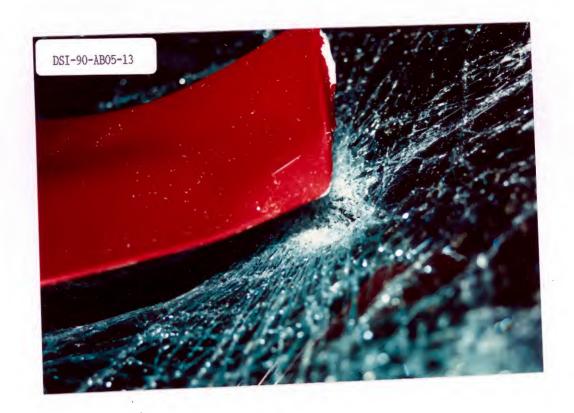


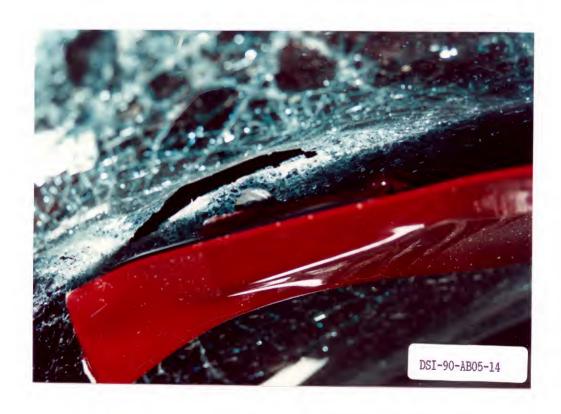


















































































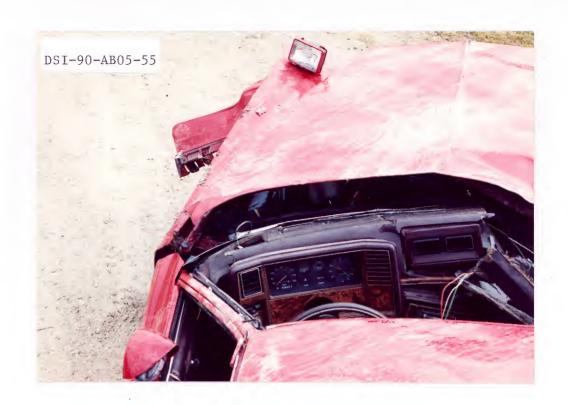


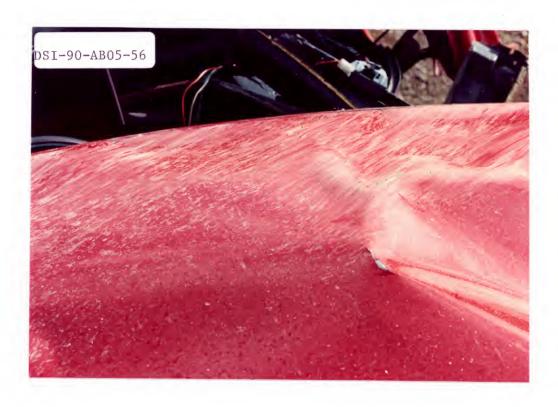








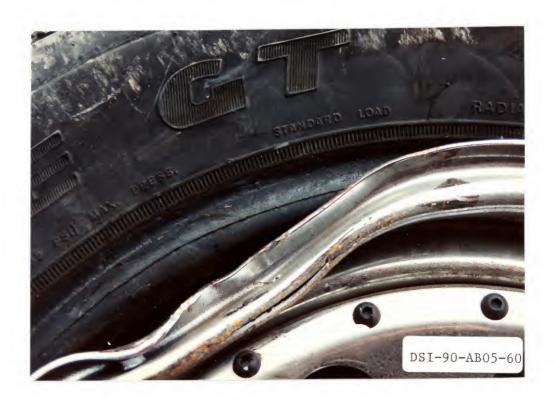
















SLIDE INDEX CASE NO. DSI-90-AB-05

SLIDE NO.	VEHICLE NO.	ORIENTATION	DESCRIPTION
1-2	1	SOUTH	APPROACH PATH
3-9	1	EAST	APPROACH PATH
10		WEST	POI
11	1	SOUTH	POFR
12	1	WEST	REVERSE PATH
13-15	1	NORTH	REVERSE PATH
16-22	2	WEST	APPROACH PATH
23	2	WEST	POI, BECOMES AIRBORNE
24	2	WEST	POINT OF LANDING
25	2	WEST	PATH, SLIDING ON TOP
26	2	WEST	PATH, ROLLS ONTO LEFT SIDE
27	2	WEST	POFR (ON LEFT SIDE)
28-35	1	CCW	EXTERIOR
	•	- 40	SLIDES 41-43, DETAIL, HOOD DAMAGE TO
,			WINDSHIELD
			SLIDES 44-48, DETAIL, TOP DAMAGE
	,		FROM AIRBORNE V2
7			SLIDES 62-63, DETAIL, HOOD DAMAGE TO
			WINDSHIELD
65-74	1	45 45 45	INTERIOR
			SLIDE 68, DETAIL, DRIVER'S SEAT
	-		BELTS (UNUSED)
	v	·	SLIDES 70-74, DETAIL, PASSENGERS
	a		SEAT BELTS (USED)

SLIDE INDEX CASE NO. DSI-90-AB-05

SLIDE NO.	VEHICLE NO.	ORIENTATION	DESCRIPTION
75-89	2	CCW	EXTERIOR
90-91	2	en en en	INTERIOR
	·		
* .			
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ACCIDENT FORM

US Department of konsportation National Highway Traffic Salety Administration

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Second case in a DOUBLE? (y/n)

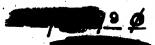
Case Number - DSI-90-AB-05

IDENTIFICATION

3. Number of General Vehicle forms Submitted

Ø 2

4. Date of Accident



5. Time of Accident

NUMBER OF EVENTS

SPECIAL STUDIES INDICATORS

11. Number of Recorded Events in This Accident

Ø3

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class of Vehicle	General Area of Demage	Vehicle Number or Object Contacted	Class of Vehicle	General Area of Damage
12. 0 1	13, 61	14. 64	15.E	16. <u>Ø2</u>	17. <u>\$ 3</u>	18. <u>R</u>
19. 0 2	20 <u></u>	21. <u>64</u>	22.I	21. Ø 2	24. <u>\$\phi 3</u>	25. <u> </u>
26. 0 3	27.42	28 <u>Ø3</u>	29. <u> </u>	30.6/	31. фф	32. <u>Ø</u>
33. 0 4	34	35	36	37	38	39
40. 0 6	. 41	42	43	44	45	48

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase 100 ")
- (02) Compact (wheelbase 100 "-104")
- (03) Intermediate (wheelbase 105 "- 109")
- (04) Full size (wheelbase 110 "-114")
- (05) Largest (wheelbase · 115 ")
- (09) Unknown passenger car size
- (11) Short utility vehicle
- (12) Truck based utility (* 10,000 lbs GVWR)
- (13) Passenger van (* 10,000 lbs GVWR)
- (14) Other van (10,000 lbs GVWR)
- (15) Pickup truck (* 10,000 lbs GVWR)
- (18) Other truck (- 10,000 lbs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (10,000 lbs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDC APPLICABLE AND

OTHER VEHICLES

- Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- Left side (L)
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

VEHICLES

TDC APPLICABLE

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision with Fixed Object

- (41) Tree (4 inches in diameter)
- (42) Tree (4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (· 4 inches in diameter)
- (51) Pole or post (4 but 12 inches in diameter)
- (52) Pole or post (12 inches in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

2-2-	11. Police Reported Alcohol Presence			
Case Number DSI-90-AB-05	(U) No alcohol present			
	(1) Yes (alcohol present)			
Vehicle Number <u>\$\psi\$ 1</u>	(7) Not reported			
VEHICLE IDENTIFICATION	(8) No driver present			
	(9) Unknown			
4. Vehicle Model Year 9 6				
Code the last two digits of the model year	Note: See Variables 37 through 55 (Page 4)			
(99) Unknown	for Information on Other Drugs			
5. Vehicle Make (specify):				
5. Vehicle Make (specify):	12. Alcohol Test Result for Driver Code actual value (decimal implied before			
	first digit = 0.xx)			
Applicable codes are found in your NASS CDS Data Collection, Coding, and	(95) Test refused			
Editing Manual.	(96) None given			
(99) Unknown	(97) AC test performed, results unknown			
	(98) No driver present			
6. Vehicle Model (specify): $\cancel{\phi} \cancel{\phi} \cancel{2}$	(99) Unknown			
LE SABRE	Source			
Applicable codes are found in your				
NASS CDS Data Collection, Coding, and	ACCIDENT RELATED			
Editing Manual.				
(999) Unknown	13. Speed Limit 9 9			
7 90 do 7 m	(00) No statutory limit			
7. Body Type 44	Code posted or statutory speed limit			
Note: Applicable codes are found on the back of this page.	(99) Unknown			
and back of this page.	14. Attempted Avoidance Maneuver 9 9			
8. Vehicle Identification Number	(00) No impact			
	(01) No avoidance actions			
Teahbeacapp	(02) Braking (no lockup)			
Left justify; Slash zeros and letter Z (0 and 2)	(03) Braking (lockup)			
No VIN - Code all zeros	(04) Braking (lockup unknown)			
Unknown - Code all nine's	(05) Releasing brakes (06) Steering left			
	(07) Steering right			
OFFICIAL RECORDS	(08) Braking and steering left			
OFFICIAL RECURDS	(09) Braking and steering right			
9 Police Penemed Mahiela Disease	(10) Accelerating			
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage	(11) Accelerating and steering left			
(1) Towed due to vehicle damage	(12) Accelerating and steering right			
(9) Unknown	(97) No driver present (98) Other action (specify):			
	(50) Other action (specify):			
10. Police Reported Travel Speed 99	(99) Unknown			
Code to the nearest mph (NOTE: 00 means	15. Accident Type 9 8			
less than 0.5 mph)	Applicable codes may be found on the back			
(97) 96.5 mph and above	of page two of this field form			
(99) Unknown	(00) No impact			
•	Code the number of the diagram that			
1	best describes the accident circumstance			
l	(98) Other accident type (specify):			
·	LOSS of CONTROL - RIGHT ANGLE			
	(99) Unknown			
****SKIP TO VARIABLE GV37 IF G	VOT DOES NOT FOLIA! OF 40444			
The state of the s	TO DOES NOT EQUAL UT-49			

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, and Brat)
- (11) Auto based panel (cargo station wagon, includes auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis

Utility Vehicles

- (13) Short utility—not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)
- (14) Truck based utility (2-door; includes Blazer, Bronco 78 on, Bronco II, Jimmy, Ramcharger, Cherokee, Trailduster, Scout)

Van Based Light Trucks (* 10,000 lbs GVWR)

- (20) Minivan (Lumina APV, Astro, Caravan, Plymouth Vista, Aerostar, Safari, Voyager [84 and after], Dodge Vista, Mini Ram Van, Toyota Cargo Van, Toyota Van, Vanagon, VW Bus, Kombi)
- (21) Standard van (Sportvan, Chevy Van, Club Wagon, Ford Econoline, Ram Van, Chateau, Ram Wagon, Vandura, Rally, Voyager |83 and before|, Beauville, Sportsman)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup Style Cab, 10,000 lbs GVWR)

- (30) Compact pickup (* 4,500 lbs. GVWR, S-10, LUV, Ram 50, Rampage, Courier, Ranger, S-15 Pup, Mazda Pickup, Mitsubishi Truck, Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup)
- (31) Standard pickup (4,500 to 10,000 lbs. GVWR, C10 C30, K10 K30, T10, D100 D350, W150 W350, F100 F350, Comanche, J10 J30, Dakota)
- (32) Pickup with slide-in camper
- (33) Truck based station wagon (4-door; includes Suburban, Travelall, Wagoneer)
- (34) Light truck based suburban limousine
- (35) Convertible pickup
- (39) Unknown (pickup style) light conventional truck type

Other Light Trucks (* 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicle, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (47) Other light conventional truck type (not a pickup includes step vans ≤ 10,000 lbs GVWR, Grumman LLV vehicle) (specify):
- (48) Unknown other light truck type (not a pickup)
- (49) Unknown light vehicle type (automobile, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (·10,000 lbs GVWR)

- (60) Step van
- (61) Single unit straight truck (10,000 lbs GVWR 26,000 lbs)
- (62) Single unit straight truck (-26,000 lbs GVWR)
- (63) Medium/heavy truck based motorhome
- (64) Truck-tractor with no cargo trailer
- (65) Truck-tractor pulling one trailer
- (66) Truck-tractor pulling two or more trailers
- (67) Truck-tractor (unknown if pulling trailer)
- (68) Unknown medium/heavy truck type
- (69) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (70) Motorcycle
- (71) Moped (motorized bicycle)
- (78) Other motored cycle type(minibike, motorscooter) (specify):
- (79) Unknown motored cycle type

Other Vehicles

- (80) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (88) Other vehicle type (specify):
- (99) Unknown body type

		Configur-	ACCIDENT TYPES (Includes Intent)	
		A. Right Roadside Departure	UNIAL USE COMINOR MADID COFFICION	CIFICS KNOWN
	Single Driver	B. Left Roadside Departure	DRIVE UPP CONTROLS ATOM CONTROLS	CIFICS KNOWN
	-	C Forward Impact	DARKED VEH. RIA. UBJECT PEDESTRIAM	ECIFICS IKNOWN
	way	D Rear-End	STOPPED SLOWER DECEL. 31 SPECIFICS SI	ACH • 33) PECIFICS NKNOWN
1	II Same Trafficway Same Direction	f: Forward Impact	34 35 36 37 38 40 127 (EACH • 42) CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT OTHER	(EACH • 43) SPECIFICS UNKNOWN
]	_	F. Sideswipe Angle	44 45 45 45 SPECIFICS SPECIFICS OTHER	49) UNKNOWN
	kay setion	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER SPECIFICS UNKNOWN	
-	Same Trafficway Opposite Direction	Forward Impact	CONTROL/ TRACTION LOSS 56 57 58 59 60 60 61 EACH • 63 AVOID COLLISION WITH OBJECT OTHER	SPECIFICS UNKNOWN
-	E	1. Sideswipe' Angle	65 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER	
-[Change Trafficway Vehicle Turning	J. Turn Across Path	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS SPECIFICS OTHER	(EACH • 75) SPECIFICS UNKNOWN
	IV. Change Vehicle	K. Turn Into Path	77 79 81 82 (EACH • 84 83 82 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS OTHER	SPECIFICS UNKNOWN
-	V Intersecting Paths (Vehicle	L. Straight Paths	87 (EACH • 90) (EACH • 91) 88 89 SPECIFICS SPECIFICS U	
_	VI. Miscel-	M. Backing Etc.	92 93 OTHER VEH. OR OBJECT BACKING VEH. 98 Other Accident Type 99 Unknown Accident Type 00 No Impact	

(NOTE: 00 means less than

0.5 mph)

(97) 96.5 mph and above

(99) Unknown

31. Longitudinal Component of Delta V

- Nearest mph

(NOTE: __00 means greater than -0.5 and less than +0.5 mph $(\pm 97) \pm 96.5$ mph and above (_ 99) Unknown

*99. Percent Overlap

35. Type of Vehicle Inspection

(1) Complete inspection

(2) Partial inspection (specify):

(0) No Inspection

Code the rounded product of : Direct Width / Undef. End Width - = Left Overlap += Right Overlap

000 Not an end-to-end impact 999 Unknown

*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0). *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

* GV99 notes: The idea is to document overlap at initial contact. Therefore, divide the direct width of the vehicle with the most narrow direct width by the undeformed end width of the vehicle described on this form.

If this vehicle sustained direct contact across the entire plane at initial contact, then code 100.

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



U.S. Department of Transportation
National Highway Traffic Safety
Administration

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

					ehicle N	lumber				ø	7
2. Case Num	nber D	SI-90-									Garage I
		V	EHICLE I	DENTI	FICATI	ION					
VIN 16	44PS	4 C 4	<u> </u>				. Model	Year _	199	6	
	(specify): Bu										Door
	de la companya de la			CATO							
Locate the e	end of the damage v	with respec	t to the vel	nicle lor	gitudin	al cente	r line o	r bumpe	er corne	r for en	d
Specific	an undamaged axle Location of Direction						Т.			•	
impact No.	Location of Diffe	ct Damaye		_ocatio	1 Of Fie	IG L	L	ocation	of Max	(IMUM (Crush
Ø 1	LEFT FRONT BUM	PER CORNE	R LEFT	FRONT .	Bumpe	e Coen	LR.				
						*					
			CRUS	SH PRO	DFILE						
NOTES: Ide	ntify the plane at w	hich the C-				e.o. at	humner	ahova	humpe	at cill	above
Fre the side	pacts. e space value is det individual C location e taper, etc. Record e as many lines/column Plane of	ons. This m the value f	ay include or each C-r cessary to	the follo	owing: I	bumper nd max	lead, b imum c	umper t	taper, si	de proti	rusion,
Number	C-Measurements	(CDC)	Crush	L			C3	C4	C ₅	C ₆	±D
\$1	NOT MEASURED	- CDC	FROM F	HOTO 6	RAPH	5 0	VLY				
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	8	•									
		•									
		•									

	VEHICLE DAMAGE SH	KETCH	
TIRE - WHEEL DAMAGE	ORIGINAL SPECIFICA		WHEEL STEER ANGLES
a. Rotation physically b. Tire restricted deflated	Wheelbase	116.8	(For locked front wheels or
	Overall Length	196.5	displaced rear axles only)
RF L RF 2	Maximum Width		RF & J &
LF		72.4	LF • • RR ± •
RR 2 RR 2	Curb Weight	3269	LR ±•
LR 2. LR 2.	Average Track	60	Within ±5 degrees
(1) Yes (2) No (8) NA (9) Unk.	Front Overhang	44	DRIVE WHEELS
	Rear Overhang	41.7	OX FWD ☐ RWD ☐ 4WD
TYPE OF TRANSMISSION	Engine Size: cyl./ displ	16/3.8	Approximate
☐ Manual 💢 Automatic	Undeformed End Width		Cargo Weight LINKNOWA)
	Original Bumper height	<u>↓</u>	
	Sumper corner " Stringline "	OST CRASH	Bumper corner Stringline
NOTES: Sketch new perimeter and cross hatc	Sumper corner Stringline	POST-CRASH	Bumper corner Stringline

mage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, sculf on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page. Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CDC WORKSHEET CODES FOR OBJECT CONTACTED 01-30 - Vehicle Number (57) Fence Noncollision (58) Wall (31) Overturn - rollover (59) Building (32) Fire or explosion (60) Ditch or Culvert (33) Jackknife (61) Ground (34) Other intraunit damage (specify): (62) Fire hydrant (63) Curb (64) Bridge (35) Noncollision injury (38) Other noncollision (specify): (68) Other fixed object (specify): (39) Noncollision - details unknown (69) Unknown fixed object **Collision With Nonfixed Object** Collision with Fixed Object (71) Motor vehicle not in transport (41) Tree (≤4 inches in diameter) (42) Tree (>4 inches in diameter) (72) Pedestrian (73) Cyclist or cycle (43) Shrubbery or bush (74) Other nonmotorist or conveyance (specify): (44) Embankment (45) Breakaway pole or post (any diameter) (75) Vehicle occupant Nonbreakaway Pole or Post (76) Animal (77) Train (50) Pole or post (≤4 inches in diameter) (78) Trailer, disconnected in transport (51) Pole or post (>4 but ≤12 inches in (88) Other nonfixed object (specify): diameter) (52) Pole or post (>12 inches in diameter) (53) Pole or post (diameter unknown) (89) Unknown nonfixed object (54) Concrete traffic barrier (98) Other event (specify): (55) Impact attenuator (56) Other traffic barrier (specify): (99) Unknown event or object

DEFORMATION CLASSIFICATION BY EVENT NUMBER

-1									
	Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
	\$ 1		<u>350</u>		F	D	£	W	Ø2.
	<u>\$2</u>	02	<u> </u>	<u> </u>	エ	D	<u> </u>	W	02
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						<u> </u>		-	
	(1)					-			

н	GHEST D	ELTA "V"			MATION GLAS	ZUI IOAI IIO		
Se	Accident Event equence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4.	41	5. <u>Ø 2</u>	6. <u>72</u>	7. <u>F</u>	8. <u>D</u>	9. E .	10, 🕊	11. <u>\$ 2</u>
Se	econd Hig	hest Delta "\	<i>,</i> ,,		·			
12	2. 42	13. 4 2	14. <u> </u>	15. 工	16. <u>-D</u>	17. <u>Y</u>	18. 火	19. <u>& Z</u>
				CRUS	H PROFILE			
		111 (111	rofile for the e appropriate	damage descrit space below. A	ped in the CDC(s	s) above shou IENTS ARE IN	ild be docume NINCHES.)	nted
ŀ	HIGHEST	DELTA "V"				•		
-	20. L	21. 	C2		C4	C5		22. + D
_!	NOT M	EASURED	- CDC 0	NLY - From	PHOTO GRAP	+s		+
S	Second Hi	ghest Delta "	'V''			•		
-	3. L	24. <u>C1</u>	C2		<u>C4</u>	<u>C5</u>	C6	25. + D
-		-			·	-		+ '
اداره اوتام	but Not C	Documente Coded on The ed File?		Researcher's A of Vehicle Disp (0) Not towed ovehicle dam (1) Towed due vehicle dam (9) Unknown	osition <u></u>	28. Origin	al Wheelbase Code to the nearest tenth of an ind Unknown	1108 ch

Is This A Multi-Stage Manu And/Or A Certified Altered (0) No post manufacturer (1) Yes - post manufacturer (specify): (Include photograph of PLACARD in case rep (9) Unknown if vehicle is	d Vehicle? modifications er modifications f CERTIFICATION port)	≠	(2) Exhaust syste	d other fuel retention artment compartment unel mpartment area	-4
Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown		<u>_</u>	(9) Unknown 32. Type of Fuel Tan (0) No fuel tank (1) Metallic (2) Non-metallic (9) Unknown	(electrical vehicle)	-
	*	•		· · · · · · · · · · · · · · · · · · ·	
*** STOP: (I.E., GV09 =	IF THE CDS APP 0 OR 9), DO NOT	PLICABI F COMF	E VEHICLE WAS PLETE THE INTER	NOT TOWED ***	
*** STOP: (I.E., GV09 =	IF THE CDS APP O OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS PLETE THE INTER	NOT TOWED ***	
*** STOP: (I.E., GV09 =	IF THE CDS APP O OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS PLETE THE INTER	NOT TOWED *** NOR VEHICLE FORM.	

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US Department of Transportation National Highway Traffic Safety Administration

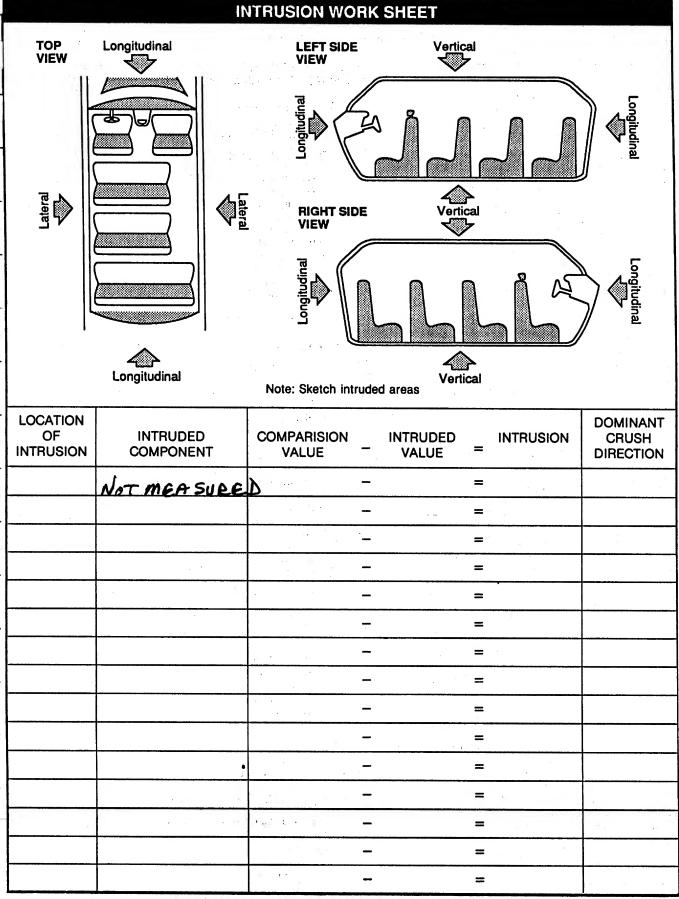
INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

GLAZING DSI-90- AB- 05 Glazing Damage from Impact Forces Case Number 15.WS 3 16. LF 6 17. RF 6 18. LR 6 19. RR 6 Vehicle Number 20. BL 21. Roof 2 22. Other 4 INTEGRITY (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces 4. Passenger Compartment Integrity (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from (00) No integrity loss Impact forces Yes, Integrity Was Lost Through (5) Glazing out-of-place and holed from impact forces (01) Windshield (6) Glazing disintegrated from impact forces (02) Door (side) (7) Glazing removed prior to accident (03) Door/hatch (rear) (8) No glazing (04) Roof (9) Unknown if damaged (05) Roof glass Glazing Damage from Occupant Contact (06) Side window (07) Rear window 23.WS & 24. LF 9 25. RF & 26. LR \$ 27. RR \$ (08) Roof and roof glass (09) Windshield and door (side) 28. BL 29. Roof 6 30. Other 6 (10) Windshield and roof (11) Side and rear window (0) No occupant contact to glazing or no glazing (12) Windshield and side window (1) Glazing contacted by occupant but no glazing damage (13) Door and side window (2) Glazing in place and cracked by occupant contact (98) Other combination of above (specify): (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant (99) Unknown contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact Door, Tailgate Or Hatch Opening and holed by occupant contact (6) Glazing disintegrated by occupant contact 5. LF 2 6. RF 1 7. LR 1 8. RR 1 9. TG/H 4 (9) Unknown if contacted by occupant If No Glazing Damage And No Occupant Contact or No (0) No door/gate/hatch (1) Door/gate/hatch remeined closed and operational Glazing, Then Code IV 31 Through IV 46 As 0 (2) Door/gate/hatch came open during collision Type of Window/Windshield Glazing (3) Door/gate/hatch jammed shut (8) Other (specify): 31. WS 1 32. LF 2 33. RF 2 34. LR 2 35. RR 4 36. BL # 37. Roof # 38. Other # (9) Unknown (0) No glazing contact and no damage, or no glazing Damage/Failure Associated with Door, Tailgate or Hatch (1) AS-1 - Laminated Opening In Collision. If IV05-IV09 ≠ 2, Then Code 6. (2) AS-2 - Tempered (3) AS-3 - Tempered-tinted 10. LF 5 11. RF 6 12. LR 6 13. RR 6 14. TG/H 6 (4) AS-14 - Glass/Plastic (8) Other (specify): (0) No door/gate/hatch or door not opened (9) Unknown Door, Tailgate, or Hetch Came Open During Collision (1) Door operational (no damage) Window Precrash Glazing Status (2) Latch/striker failure due to damage 39.WS 1 40. LF 2 41. RF 42. LR 2 43. RR 4 (3) Hinge failure due to damage (4) Door structure failure due to damage 44. BL 45. Roof 46. Other 4 (5) Door support (i.e., pillar, sill, roof side rall, etc.) failure due to damage (0) No glazing contact end no damage, or no glazing (6) Latch/striker and hinge failure due to (1) Fixed damage (2) Closed (8) Other failure (specify): (3) Partially opened (4) Fully opened (9) Unknown

(9) Unknown

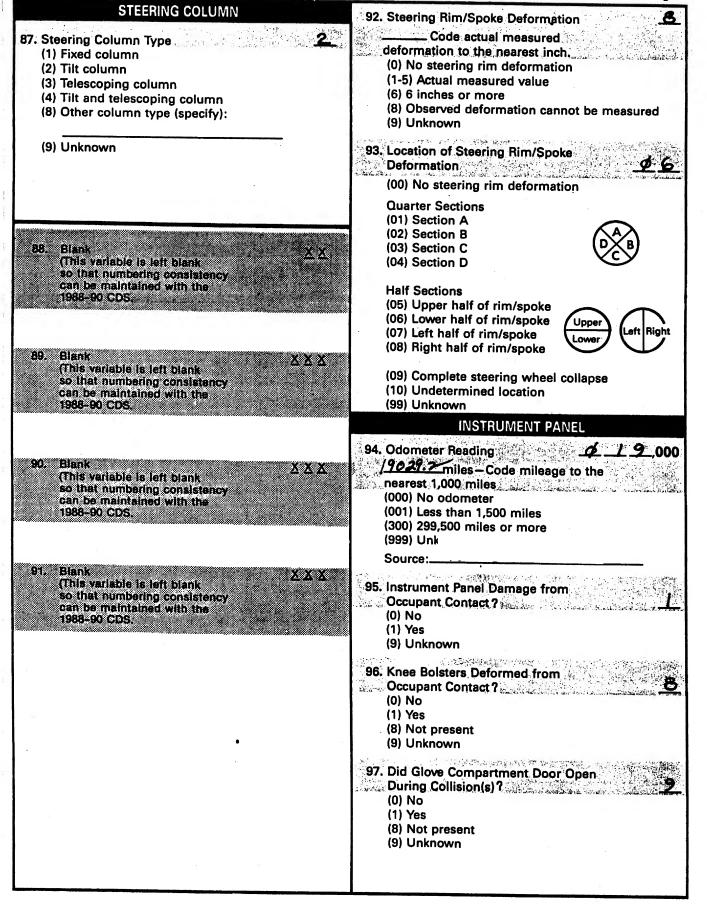
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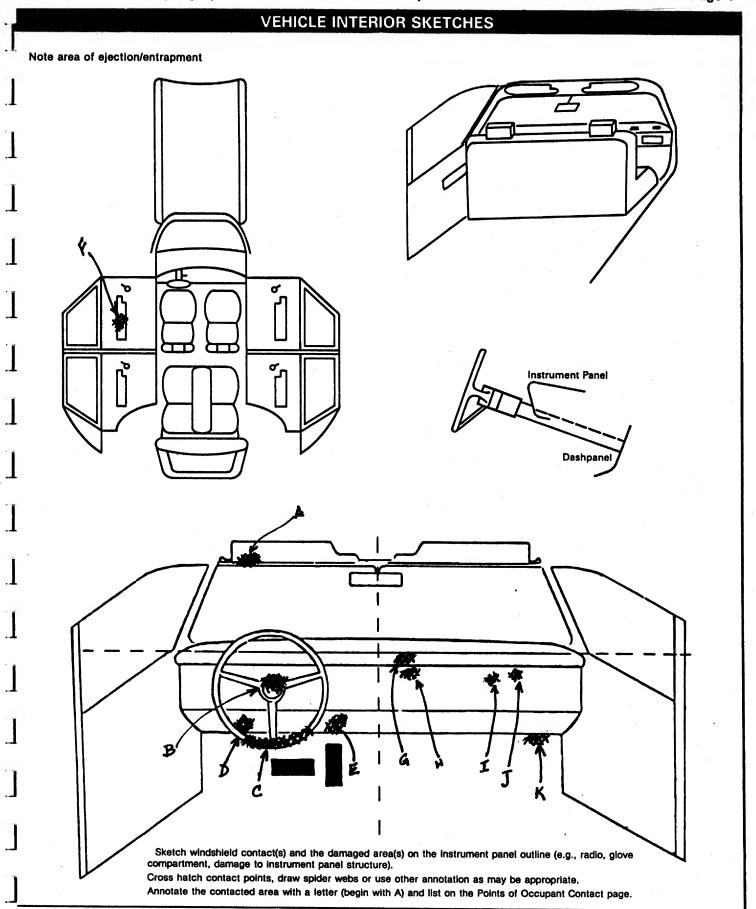


Document no more than the 15 most severe intrusions

OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV 47-IV 86 blank. INTRUDING COMPONENT Interior Components Dominant (01) Steering assembly Location of Intruding Magnitude Crush Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47.___ 48.__ 49._ (05) Toe pan 50. (06) A-pillar (07) B-pillar (08) C-pillar 2nd 51.____ 52.___ 53. (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) 3rd 55.____ 56.___ _ __ 57. 58. (13) Roof side rail (14) Windshield (15) Windshield header (16) Window frame 4th 59.____ 60._ ∠ 61._ (17) Floor pan (includes sill) (18) Backlight header (19) Front seat back 5th 63.____ 64. 65. (20) Second seat back (21) Third seat back (22) Fourth seat back (23) Fifth seat back 6th 67.____ __ 69.__ 70._ (24) Seat cushion (25) Back door/panel (e.g., tailgate) (26) Other interior component (specify): 7th 71._ ___ 72.____ 73.___ (27) Side panel - forward of the A-pillar (28) Side panel - rear of the A-pillar 76.___ 77.___ **Exterior Components** 78.___ (30) Hood (31) Outside surface of vehicle (specify): /9th 79.____ 80.___ 81.___ (32) Other exterior object in the environment (specify): _ (33) Unknown exterior object 10th 83.___ 84.__ 85.__ (97) Catastrophic (98) Intrusion of unlisted component(s) LOCATION OF INTRUSION (specify): _ (99) Unknown Front Seat Fourth Seat (11) Left (41) Left MAGNITUDE OF INTRUSION (12) Middle (42) Middle $(1) \ge 1$ inch but < 3 inches (13) Right (43) Right $(2) \ge 3$ inches but < 6 inches Second Seat $(3) \ge 6$ inches but < 12 inches (97) Catastrophic (21) Left $(4) \ge 12$ inches but < 18 inches (98) Other enclosed $(5) \ge 18$ inches but < 24 inches (22) Middle area (specify): $(6) \ge 24$ inches (23) Right (7) Catastrophic (99) Unknown (9) Unknown Third Seat (31) Left DOMINANT CRUSH DIRECTION (32) Middle (1) Vertical (33) Right (2) Longitudinal (3) Lateral (7) Catastrophic (9) Unknown

COMPARISON VALUE	- DAMAGE VA	ALUE =	DEFORMATION	
	•	=		
		=		-
	•			
		.*	V.	
	•			





tional Accid	dent Sampling S	ystem – Crasi	iworthiness Da	ta System: Interior Vehicle Form	Page
		POINT	S OF OCCUP	ANT CONTACT	
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
Α	ø 3	Ø1	HEAD	DEGREGATION AND SCUFF & HAIR	1
В	\$5	6 1	TORSO	DEGENATION / FABRIC TRANSFER	1
C -	ø4	4 1	TORSO,	DEFORMATION	1
D	ø9	φI	LEFT KNEE		2
Ε.	ø 9	Ø 1	RILIT KNEE		2
F	21	61	LEFT SIDE	SCUFF AND FABRIC TRANS FER	3
G	10	ФZ	HEAD	ABRADED	2
Н	10	Ø 2	HEAD	ABRADED	2
<u> </u>	12	φ2	LEFT ARM	ABRADED AND DEGRAPTION	2
J	11	42	LEFT ARM	ABRADAD AND DEFORMATION	2
K	11	Ø 2	RILLY FOOT	SGUFF AND ABRAGED	2
L					
М					
N				-	
		COD	ES FOR INTERIO	R COMPONENTS	•
RONT (01) Windst (02) Mirror	nield		6) Left side window one or more of	v glass including (48) Child safety seat (sp	ecify):

- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror,or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- or roof side rail
- (27) Other left side object (specify):

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify):

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects

(49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (4) Unknown

When a child safety seat is present enter the occupant below the occupant's number using the codes listed below	t's number in the first row and complete the column				
Occupant Number					
1. Type of Child Safety Seat					
2. Child Safety Seat Orientation					
3. Child Safety Seat Harness Usage					
4. Child Safety Seat Shield Usage					
5. Child Safety Seat Tether Usage					
6. Child Safety Seat Make/Model Spec	cify Below for Each Child Safety Seat				
1. Type of Child Safety Seat	3. Child Safety Seat Harness Usage				
 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): 	 4. Child Safety Seat Shield Usage 5. Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat 				
(8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (03) Other orientation (specify):	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed with Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used				
(04) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	Unknown if Designed with Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used				
(19) Unknown orientation Unknown Design or Orientation for This Age/ Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	6. Child Safety Seat Make/Model (Specify make/model and occupant number)				
(29) Uriknown orientation (99) Unknown if child safety seat used					

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	B/	 S
44.1	-	
_		

		Left	Right
F	Availability/Function	Ø	Ø
Ŕ	Deployment	ø	d
S T	Failure	Ø	6

Air Bag System Availability/Function (0) Not equipped/not available

- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air beg not reinstalled (9) Unknown

Air Bag System Deployment

- (0) Not equipped/not available
 (1) Air bag deployed during accident
- (2) Air bag deployed inadvertently just prior to accident
- (3) Air bag deployed, accident sequence
- undetermined
- Nondeployed Unknown if deployed (5)
- Unknown

Did Air Bag System Fail?

- (0) Not equipped/not available (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
_	Availability/Function	2	2.
	Use	2.	1
R	Туре		
Ť	Proper Use	ø	
	Failure Modes	ø	

Autometic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- 2 point automatic belts
- 3 point automatic belts Automatic belts - type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- Automatic belt use unknown
- (9) Unknown

Autometic (Passive) Belt System Type

- (O) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system (9) Unknown

- Proper Use of Automatic (Passive) Belt System
 - (O) Not equipped/not available/not used
 - Automatic belt used properly
 - Automatic belt used properly with child safety seat

- Automatic Belt Used Improperly
 (3) Automatic shoulder belt worn under arm Automatic shoulder belt worn behind back
- (5) Automatic belt worn eround more than
- one person
- (6) Lap portion of eutomatic belt worn
- on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)

- Torn webbing (stretched webbing not included) (3)
- Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- Combination of above (specify):
- Other automatic belt failure (specify):
- (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

0		Left	Center	Right
FIRST	Availability	· ø	3	4
	Use	φφ	ØØ	00
	Failure Modes	φ	ø	ø
одоошо	Availability	4	3	4
	Use	ØØ	ØØ	ØØ
N D	Failure Modes	ø	ø	ø
TH	Availability			
	Use			49
R D	Failure Modes	·		
O T	Availability		×	
Η̈́	Use			
H E R	Failure Modes			*

Manual	(Activa)	Relt	System	Availability
ivialluai	MCUVE	Deit	Jystem	AVAIIADIIITV

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

(08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

98.00**0.00**00

National Accident Sampling System - Crashworthiness Data System: Interior Vehicle Form

HEAD RESTRAINTS/SEAT EVALUATION

Page 7

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	ch	3
R S	Seat Type	\$6	\$ \$	
T	Seat Performance	1	1	\$6
S E C O N D	Head Restraint Type/Damage	Ø	Ø	d
Ö	Seat Type	ø 3	<i>ø</i> 3	
N D	Seat Performance	1	<u> </u>	<u> </u>
T H I R	Head Restraint Type/Damage			
	Seat Type			
D	Seat Performance			
O T	Head Restraint Type/Damage			
H E	Seat Type			
Ř	Seat Performance			

0000	pant rostuon
(0)	No head restraints
(1)	integral - no damage
(2)	Integral - damaged during accident
(3)	Adjustable - no damage
(4)	Adjustable - damaged during accident
(5)	Add-on - no damage
(6)	Add-on - damaged during accident
	Other (specify):
	Unknown

Head Restraint Type/Damage by Occupant at This

Seat	Туре	(This	Occupant	Position
------	------	-------	----------	-----------------

- (00) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify): __
- (99) Unknown

Seat Performance (This Occupant Position)

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify).
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E. UNUSUAL OCCUPANT CONTACT PATTERN)

National Accident Sampling System					cle Form		Page 8
Complete the following if the researce in the vehicle. Code the appropriate	cher has any ir	ndications t	that an occupa	ant was eitl	her ejected f	rom or entra	apped
EJECTION No [X] Yes [Describe indications of ejection and]						
	7						
Occupant Number					7		
Ejection					:		
(Note on Vehicle Interior Sketch) Ejection Area							
Ejection Medium		,					
Medium Status			*				
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown Ejection Area (1) Windshield	(8) Oth pick ————————————————————————————————————	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown			- (9) Unknown Medium Status (Immediately Pri		
 (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear 	(1) Door (2) Nont (3) Fixed	Ejection Medium (1) Door hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (1) Open (2) Closed (3) Integral structu (9) Unknown			cture		
ENTRAPMENT No [X] Yes [Describe entrapment mechanism:							
——————————————————————————————————————							
Component(s):							
(Note in vehicle interior diagram)	· · · · · · · · · · · · · · · · · · ·						

US Department of Banspartation National Highway Traffic Safety Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

OCCUPANT ASSESSMENT FORM

The second second second	11. Occupant's Posture 9
Case Number DSI-99- <u>AB-65</u>	(1) Abnormal posture (specify):
Vehicle Number	(9) Unknown
Occupant Number	EJECTION/ENTRAPMENT
OCCUPANT'S CHARACTERISTICS	12. Ejection
	(0) No ejection
5. Occupant's Age 71	(1) Complete ejection
Code actual age at time of accident.	(2) Partial ejection (3) Ejection, unknown degree
(00) Less than one year old (specify by month):	(9) Unknown
(97) 97 years and older	13 Fiertion Area
(99) Unknown	13. Ejection Area (0) No ejection
	(1) Windshield
6. Occupant's Sex	(2) Left front
(1) Male	(3) Right front
(2) Female	(4) Left rear
(9) Unknown	(5) Right rear
7. Occupant's Height 99	(6) Rear
Code actual height to the nearest inch.	(7) Roof
(99) Unknown	(8) Other area (e.g., back of pickup, etc.)
	(specify):
8. Occupant's Weight 999	(9) Unknown
Code actual weight to the nearest pound.	14. Ejection Medium
(999) Unknown	(0) No ejection
1	(1) Door/hatch/tailgate
9. Occupant's Role	(2) Nonfixed roof structure
(1) Driver	(3) Fixed glazing
(2) Passenger (9) Unknown	(4) Nonfixed glazing (specify):
(a) Olikhowii	
10. Occupant's Seat Position	(5) Integral structure
Front Seat	(8) Other medium (specify):
(11) Left side	
(12) Middle (13) Right side	(9) Unknown
(14) Other (specify):	1 45 Marthur Carary (Immediately Delants Immed)
(15) On or in the lap of another occupant	15. Medium Status (Immediately Prior to Impact)
Second Seat	(0) No ejection (1) Open
(21) Left side	(2) Closed
(22) Middle	(3) Integral structure
(23) Right side (24) Other (specify):	(9) Unknown
(25) On or in the lap of another occupant	
·	16. Entrapment φ
Third Seat (31) Left side	(NOTE: Entrapped means that part of the
(32) Middle	person was in the vehicle and mechanically
(33) Right side	restrained; jammed doors and immobilizing
(34) Other (specify): (35) On or in the lap of another occupant	injuries by themselves are not sufficient to constitute entrapment.)
(00) On or in the lap of another occupant	(0) Not entrapped
Fourth Seat	(1) Entrapped
(41) Left side (42) Middle	(9) Unknown
(43) Right side	
(44) Other (specify):	
(45) On or in the lap of another occupant	
(97) In or on unenclosed area	
(98) Other seat (specify):	7
1	

17. Manual (Active) Belt System Aveilability. © (10) Not aveilable (11) Eleit removed/destroyed (12) Shoulder belt (13) Lap belt (14) Lap and shoulder belt (15) Bolt aveilable - type unknown (16) Other belt specify): (10) None used, not available, or belt removed/destroyed (10) None used, not available, or belt removed/destroyed (10) None used, not available, or belt removed/destroyed (10) Indepartive (specify): (102) Shoulder belt (103) Lap belt (104) Lap and shoulder belt (105) Belt used - type unknown (106) Other belt used (specify): (112) Shoulder belt used with child safety seat (113) Lap belt used with child safety seat (113) Lap belt used with child safety seat (114) Lap and shoulder belt used with child safety seat (115) Belt used with child safety seat (116) Other belt used (specify): (17) None used or not available (18) Proper Lee of Manual (Active) Belts (19) Eleit used mytoperly (19) Belt used properly (19) Belt used mytoperly (19) Belt worn on abdomen (19) Lap belt worn on abdo	National Accident Sampling System - Crashworthiness D	ata System: Occupant Assessment Form	Page 2
17. Manual (Active) Bet System Assilability 12.	RESTRAINT SYSTEM AND SEAT EVALUATION	Of Ala Dan Control of the Control of	
(1) Not available (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—typs unknown (8) Other belt (specify): (9) Unknown 18. Manual (Active) Belt System Use (10) None used, not available, or belt removed/destroyed (2) Shoulder belt (2) Air bag deployed during secident removed/destroyed (3) In poperative (specify): (10) Shoulder belt (3) Lap belt (3) Lap belt (3) Lap belt (3) Lap belt (4) Lap and shoulder belt (3) Lap belt (3) Lap belt (4) Lap and shoulder belt (3) Lap belt (4) Lap and shoulder belt used (4) Nondeployed (5) Unknown (6) Other belt used with child safety seat (13) Lap belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety (15) Belt used with child safety seat (16) Other belt used with child safety seat (17) None used or not available (18) Other belt used with child safety seat (19) Unknown (19) Unknown (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other belt used with child safety seat (19) Unknown (19) Other of unused (19) Unknown (19) Other of unused (19) Unknown (19) Unknown	17. Manual (Active) Relt System Availability Ø		P
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(8) Other improper use of manual belt system (specify): (9) Unknown 20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Restrained, type unknown (9) Police indicated "unknown" 25. Head Restraint Type/Damage by Occupant at This Occupant Poeition (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown	improperly with child safety seat (specify):		
(8) Restrained, type unknown (9) Police indicated "unknown" 20. Manual (Active) Belt Feilure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Restrained, type unknown (9) Police indicated "unknown" 25. Head Restraint Type/Damage by Occupant at This Occupant Poeition (0) No head restraints (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – damaged during accident (8) Other (specify): (9) Unknown	(0) 004	(if other or determents restraint (appeary).	
(9) Police indicated "unknown" 20. Manual (Active) Belt Feilure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Police indicated "unknown" 25. Head Restraint Type/Demage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown		(8) Restrained, type unknown	_
(9) Unknown 20. Manual (Active) Bek Feilure Modes During Accident (0) No manual belt used or not available (1) No manual belt fallure(s) (2) Torn webbling (stretched webbling not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	(Specify):		
20. Manual (Active) Selt Feilure Modes During Accident (0) No manual belt used or not available (1) No manual belt fallure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual beit failure (specify): 2) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown	(O) Heknown		
During Accident (0) No manual belt used or not available (1) No manual belt fallure(s) (2) Torn webbling (stretched webbling not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	(3) UNKNOWN		2
(0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – no damage (8) Other (specify): (9) Unknown			<u></u>
(0) No manual belt used or not available (1) No manual belt fallure(s) (2) Torn webbling (stretched webbling not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown			
(3) Adjustable—no damage (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual beit failure (specify): (9) Unknown			
(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual beit failure (specify): (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown		(3) Adjustable no damage	
(4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual beit failure (specify): (9) Unknown		(4) Adjustable - damaged during accident	
(8) Other (specify): (7) Combination of above (specify): (8) Other manual beit failure (specify):	(4) Upper anchorage separated	(5) Add-on—no damage	
(6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	(5) Other anchorage separated (specify):	(6) Add-on—damaged during accident	
(7) Combination of above (specify): (8) Other manual belt failure (specify):	(6) Broken retractor	(a) Other (specify):	
(8) Other manual belt failure (specify):		(O) Hakanaa	_
		(a) Ouknown	
(9) Unknown	(5) Other manual belt failure (specify):		
	(9) Unknown	* OF 1	•
	•	4	

(7) Other type child safety seat (specify):

(8) Unknown child safety seat type

(9) Unknown if child safety seat used

(22) Harness/shield/tether used

(29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

INJURY CONSEQUENCES	
34. Injury Severity (Police Rating) (0) O-No injury (1) C-Possible injury (2) B-Nonincapacitating injury (3) A-Incapacitating injury (4) K-Killed (5) U-Injury, severity unknown (6) Died prior to accident (9) Unknown	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
35. Treatment — Mortality (0) No treatment (1) Fatal (2) Fatal — ruled disease Nonfatal (3) Hospitalized (4) Transported and released (5) Treatment at scene — nontransported (6) Treatment later (8) Treatment — other (specify):	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal—ruled disease (99) Unknown 40. 1st Medically Reported Cause of Death
(9) Unknown 36. Type of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify):
(9) Unknown 37. Hospital stay —— Code number of days (up through 60) that the occupant stayed in the hospital (00) Not hospitalized (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant — Code the actual number of Injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured
98. Glascow Coma Score (upon admission) (99) Unknown	99. Case Occupant (0) Not the Case occupant (1) This is the Case occupant (2) This is the Case occupant in another case
UPDATE CANDIDATE	NO[X] YES[]
IF THERE ARE NO	OP HERE *** RECORDED INJURIES 43=00, 97, 99)

× 3	Accident Sampling System-Crashworthiness Data		Page 5
44. Au	tomatic (Passive) Belt System Availability/	47. Proper Use of Automatic (Passive)	ø
	sction	Belt System	7
	Not equipped/not available	(0) Not equipped/not available/not used	
	2 point automatic belts	(1) Automatic belt used properly	
	3 point automatic belts	(2) Automatic belt used properly with	
(3)	Automatic belts - type unknown	child safety seat	•
	n-functional	Automatic Belt Used Improperly	
(4)	Automatic belts destroyed or rendered	(3) Automatic shoulder belt worn under arm	
	inoperative	(4) Automatic shoulder belt worn behind back	• * .
(9)	Unknown	(5) Automatic belt worn around more than	
		one person	
7000000		(6) Lap portion of automatic belt worn	· ·
45. Au	tomatic (Passive) Belt System Use	on abdomen	
(0)	Not equipped/not available/destroyed or	(7) Automatic lap and shoulder belt or	
	rendered inoperative	automatic shoulder belt used improperly	
(1)	Automatic belt in use	with child safety seat (specify):	
(2)	Automatic belt not in use (manually disconnected,	what child salety scat (specify);	
	motorized track inoperative) (specify):	(8) Other improper use of automatic belt system	-
		(specify):	
(3)	Automatic belt use unknown	(9) Unknown	•
(9)	Unknown	(2) Callows	*
		973632364	CONCRETE CONTRACTOR CONTRACTOR
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		48. Automatic (Passive) Belt Failure Modes	<b>.</b>
46. Au	tomatic (Passive) Belt System Type	During Accident	
(0)	Not equipped/not available	(0) Not equipped/not available/not in use	ralad Mariada
	Non-motorized system	(1) No automatic belt failure(s)	
	Motorized system	(2) Tom webbing (stretched webbing not include	
(9)	Unknown	(3) Broken buckle or latchplate	u)
		(4) Upper anchorage separated	
		(5) Other anchorage separated (specify);	
		(opening),	
		(6) Broken retractor	-
		(7) Combination of above (specify):	
•		(8) Other automatic belt failure (specify):	
		(appeny).	
		(9) Unknown	-
ос	UPDATE CANDIDATE? CUPANT INJURY FORM INCLUDED WITH	NO [X] YES [ ] INITIAL SUBMISSION? NO [ ] YES	×γ.
	*** STOP	HERE ***	
	IF THERE ARE NO R	ECORDED INJURIES	
	(I.E., OA43	= 00,97,99)	
• •		(i)	



US Department of Transportation
National Highway Traffic Salety
Administration

## **OCCUPANT INJURY FORM**

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

a comment of war and the said

Vehicle Number

01

Case Number-

DSI-90-AB-05

Occupant Number

Ø1

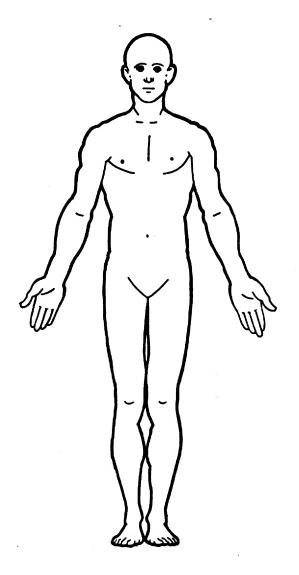
### INJURY DATA

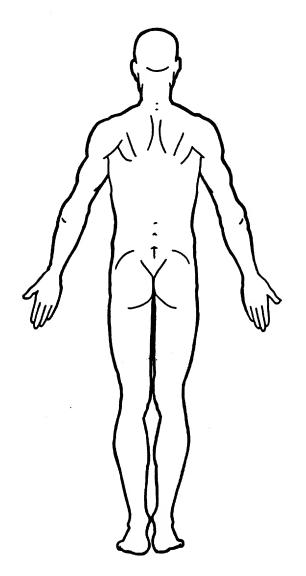
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant injury Supplement.

	Course -		О.	I.C.—A.I.S	) <b>.</b>			Injury		
	Source Of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
181	ه.2	• π	7.년	•4	a.U	10. <b>Z</b>	11.27	12. 2	13.7	14.22
2nd	16	16	17	16	19	20,	21	22	23	24
3rd	25	26	27	28	29	30	31	32	33	<b>34</b> — —
4th	35	34	·37	28	39	40	41	42	43	44
5th	45	44	47	44	49	50,	61,	52	53	54
8th	66	56	67	<b>54</b>	59	60	61	62	63	64
7th	66	<b>es.</b>	57	<b>06.</b>	64	70	71	72	73	74
Bth	75	78	77	n_	79	80	81	82	83,	84
<b>9</b> th	85	84	67	<b>38.</b>	89	90	91	92	93	4
10th	95	96	97	96	<b>89</b>	100,	101	102	103	104

# OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

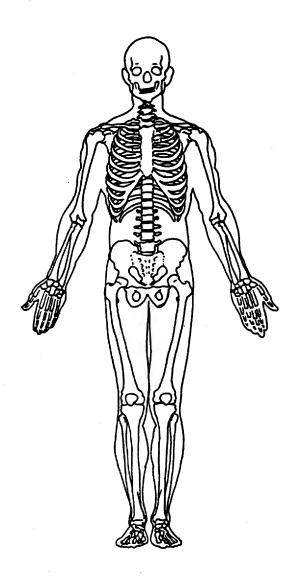
Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

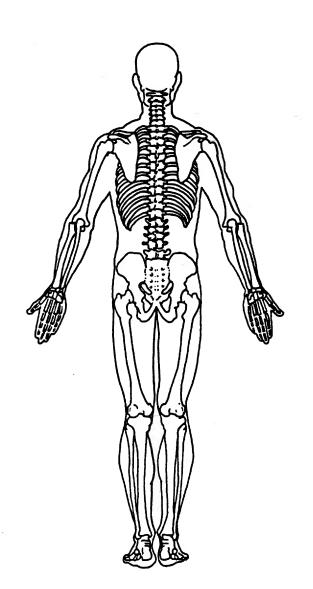




## OFFICIAL INJURY DATA - SKELETAL INJURIES

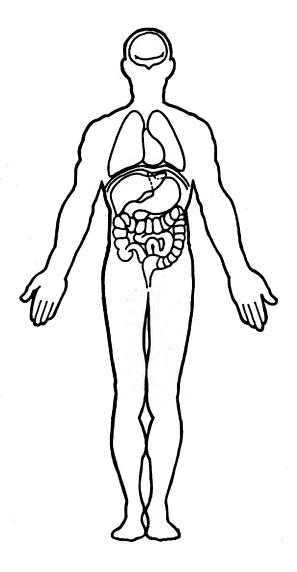
Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

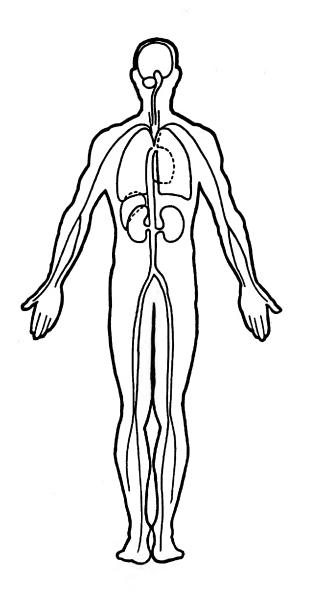




# OFFICIAL INJURY DATA - INTERNAL INJURIES

Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





### BEST AVAILABLE

Form Approved

# O.M.B. No. 2127-0021 NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

**OCCUPANT ASSESSMENT FORM** 

A CONTRACTOR OF THE PROPERTY O	11. Occupant's Posture (0) Normal posture
Case Number DST-94-AB	(1) Abnormal posture (specify):
Vehicle Number	<u>グ</u> (9) Unknown
Occupant Number	62 EJECTION/ENTRAPMENT
OCCUPANT'S CHARACTERISTICS	12. Ejection (0) No ejection
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by mont	6 8 (1) Complete ejection (2) Partial ejection
(97) 97 years and older (99) Unknown	13. Ejection Area (0) No ejection
8. Occupant's Sex (1) Male (2) Female (9) Unknown	(1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear
Code actual height to the nearest inch. (99) Unknown	9 9 (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):
8. Occupant's Weight  Code actual weight to the nearest pound. (999) Unknown	9 9 (9) Unknown  14. Ejection Medium (0) No ejection
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):
10. Occupant's Seat Position – Front Seat (11) Left side	(5) Integral structure (8) Other medium (specify):
(12) Middle (13) Right side (14) Other (specify):	(9) Unknown  15. Medium Status (Immediately Prior to Impact)
(15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify):	(0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(25) On or in the lap of another occupant  Third Seat	16. Entrapment
(31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another docupant	(NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrappent.)
Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):	(0) Not entrapped (1) Entrapped (9) Unknown
(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown	

RESTRAINT SYSTEM AND SEAT EVALUATION  17. Manual (Active) Belt System Availability (0) Not available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (2) Air bag disconnected (specify):	ø
(0) Not available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (0) Not equipped/not available (1) Air bag Non-functional	Φ
(0) Not available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (1) Not equipped/not available (1) Air bag Non-functional	
(1) Beit removed/destroyed (2) Shoulder beit (3) Lap beit Non-functional	
(2) Shoulder belt (3) Lap belt Non-functional	
(3) Cap Deit	
(2) Air has disconnected (specify).	
(4) Lap and shoulder beit	
(5) Belt available - type unknown	
(8) Other belt (specify): (3) Air bag not reinstalled	¥
(9) Unknown	
(9) Unknown	
18. Manual (Active) Belt System Use 22. Air Bag System Deployment	do
16. Manual (Active) Belt System Use (0) Not equipped (not excitable	7
(1) Air has deployed during and d	
removed/destroyed (01) Inoperative (specify): (2) Air bag deployed inadvertently just	
prior to accident	
(2) Air has deplayed and deplayed	
100/01/00/00/00/	•
(03) Lap belt undetermined (04) Lap and shoulder belt (4) Nondeployed	
(05) Belt used—type unknown (5) Unknown if deployed	
(08) Other belt used (specify):  (9) Unknown	
(3) Unknown	
(12) Shoulder belt used with child safety seat 23. Did Air Bag System Fail?	· . 1
	#
14.4 Law and also 1.4 Lib. A sub-	
0000	
(2) Yes (specify):	
(18) Other helt used with child sefety east	
(specify):(9) Unknown	
(99) Unknown if belt used	
*	
(1 ale 2)	•
(0) None used or not available for Information on Automatic Belts (1) Belt used properly	
(2) Belt used properly with child safety seat	
24. Police Reported Restraint Use	4
Belt Used Improperly (0) None used	
(3) Shoulder belt worn under arm (1) Police did not indicate restraint use	
(4) Shoulder belt worn behind back or seat (2) Shoulder belt	
(5) Belt worn around more than one person (3) Lap belt	
(6) Lap belt worn on abdomen (4) Lap and shoulder belt	
(7) Lap belt or lap and shoulder belt used (5) Belt used, type not specified	
improperly with child safety seat (specify): (6) Child safety seat	
(7) Other or automatic restraint (specify):	
(8) Other improper use of manual belt system	
(specify): (8) Restrained, type unknown	
(9) Police indicated "unknown"	
(9) Unknown 25. Head Restraint Type/Damage by Occupant	_
20 Manual (Action) Role Estimated at This Occupant Position	<u> 3</u>
During Assident (0) No head restraints	
(1) Integral – no damage	
(1) No manual helt fellurate) (2) Integral — damaged during accident	
(2) Torn webbing (stretched webbing not included) (3) Adjustable – no damage	
(3) Broken buckle or latchplate	
(4) Upper anchorage separated (5) Add-on—no damage	
(5) Other anchorage separated (specify):  (6) Add-on—damaged during accident (8) Other (specify):	
(6) Broken retractor	
(7) Combination of above (specifyly	_
(9) Unknown	
(8) Other manual belt failure (specify):	
(9) Unknown	

National Accident Sampling System—Crashworthiness Da	ta System: Occupant Assessment Form Page 3
26. Seat Type (This Occupant Position) 6 6 (00) Occupant not seated or no seat (01) Bucket	30. Child Safety Seat Orientation 600) No child safety seat
(02) Bucket with folding back (03) Bench	Designed for Rear Facing for This Age/Weight (01) Rear facing
(04) Bench with separate back cushions	(02) Forward facing
(05) Bench with folding back(s)	(08) Other orientation (specify):
(06) Split bench with separate back cushions	toot outsi outsidati tobooliyti
(07) Split bench with folding back(s)	(09) Unknown orientation
(08) Pedestal (i.e., van type)	(05) Onknown orientation
(09) Other seat type (specify):	Designed for Forward Facing for This Age/Weight
	(11) Rear facing
(99) Unknown	(12) Forward facing
	(18) Other orientation (specify):
27. Seat Performance (This Occupant Position)	(10) Other orientation (specify):
(0) Occupant not seated or no seat (1) No seat performance failure(s)	(19) Unknown orientation
(2) Seat adjusters failed (3) Seat back folding locks failed	Unknown Design or Orientation for This
(4) Seat track/anchors failed	Age/Weight, or Unknown Age/Weight
(5) Deformed by Impact of occupant	(21) Rear facing
(6) Deformed by passenger compartment intrusion	(22) Forward facing
(specify):	(28) Other orientation (specify):
· ×	(29) Unknown orientation
(7) Combination of above (specify):	(99) Unknown if child safety seat used
-	31. Child Safety Seat Harness Usage
(8) Other (specify):	32. Child Safety Seat Shield Usage
(9) Unknown	33. Child Safety Seat Tether Usage  Note: Options below applicable to Variables OA31-OA33.
	(00) No child safety seat
CHILD SAFETY SEAT	Not Designed with
2 1 1 1 2 1 1 6 1 2 1 1 degree of real to the hold of the most account and the second of	Harness/Shield/Tether
28. Child Safety Seat Make/Model (000) No child safety seat	(01) After market harness/shield/tether added, not used
Applicable codes are found in your NASS CDS	(02) After market harness/shield/tether used
Data Collection, Coding, and Editing Manual	(03) Child safety seat used, but no after market
(997) Other make/model (specify):	harness/shield/tether added
	(09) Unknown if harness/shield/tether
(998) Unknown make/model	added or used
(999) Unknown if child safety seat used	
The state of the second st	Designed with Harness/Shield/Tether
29. Type of Child Safety Seat	(11) Harness/shield/tether not used
(0) No child safety seat	(12) Harness/shield/tether used
(1) Infant seat	(19) Unknown if harness/shield/tether used
(2) Toddier seat	Unknown If Declared Miles
(3) Convertible seat	Unknown if Designed with Harness/Shield/Tether
(4) Booster seat	(21) Harness/shield/tether not used
(7) Other type child safety seat (specify):	(22) Harness/shield/tether used
	(29) Unknown if harness/shield/tether used
(8) Unknown child safety seat type (9) Unknown if child safety seat used	(99) Unknown if child safety seat used

INJURY CONSEQUENCES	38. Working Days Lost 6.8
34. Injury Severity (Police Rating)	(up through 60) that the occupant
(0) O—No injury	lost from work due to the accident
(1) C—Possible injury	(00) No working days lost
(2) B—Nonincapacitating injury	(61) 61 days or more
(3) A—Incapacitating injury	(62) Fatally injured
(4) K – Killed	(97) Not working prior to accident
(5) U—Injury, severity unknown	(99) Unknown
(6) Died prior to accident	(SO) CHAILOWN
(9) Unknown	39. Time to Death
76 Trantment Manually	Code number of hours from time of
35. Treatment — Mortality (0) No treatment	accident to time of death up through 24
(1) Fatal	hours. If time of death is greater than 24
	hours, code number of days. (Note: 1 day =
(2) Fatal—ruled disease	31, 2 days = 32, n days = 30 + n up through
Nonferra	30 days = 60)
Nonfatal	(00) Not fatal
(3) Hospitalized	(96) Fatal—ruled disease
(4) Transported and released	(99) Unknown
(5) Treatment at scene - nontransported	(55) CHRIOWII
(6) Treatment later	40. 1st Medically Reported Cause of Death
(8) Treatment—other (specify):	41. 2nd Medically Reported Cause of Death
(9) Unknown	42. 3rd Medically Reported Cause of Death 6
	Code the Occupant Injury from line
36. Type of Medical Facility (for Initial Treatment)	number(s) for the medically reported
(0) Not treated at a medical facility	injury(s) which reportedly contributed to
(1) Trauma center	this occupant's death
(2) Hospital	(00) Not fatal or no additional causes
(3) Medical clinic	(97) Other result (specify):
(4) Physician's office	The state of the s
(5) Treatment later at medical facility (8) Other (specify):	(99) Unknown
(9) Unknown	43. Number of Recorded Injuries for
(a) Oukuowu	This Occupant 6 2
37. Hospital stay	Code the actual number of
Code number of days (up through 60)	injuries recorded for this occupant.
that the occupant stayed in the hospital	(00) No recorded injuries
(00) Not hospitalized	(97) Injured, details unknown
(61) 61 days or more	(99) Unknown if injured
(99) Unknown	· ·
	·
	4.
98. Glascow Coma Score	99. Case Occupant
(upon admission)	and a second sec
·	(0) Not the Case occupant
(99) Unknown	(1) This is the Case occupant
•	(2) This is the Case occupant
•	in another case
UPDATE CANDIDATE	NO[X] YES[]
*** STO	P HERE ***
IF THERE ARE NO	

1, 41	Accident Sampling System-Crashworthiness Date	System: Occupant Assessment Form	Pa
4. Au	tomatic (Passive) Belt System Availability/	47. Proper Use of Automatic (Passive)	
· Fw	action -	Belt System	-
	Not equipped/not available	(0) Not equipped/not available/not used	
	2 point automatic belts	(1) Automatic belt used properly	
(2)		(2) Automatic belt used properly with	
(3)	Automatic belts - type unknown	child safety seat	
• • • •	n-functional	Automatic Belt Used Improperly	
(4)	Automatic belts destroyed or rendered	(3) Automatic shoulder belt worn under arm	
	inoperative	(4) Automatic shoulder belt worn behind back	
(9)	Unknown	(5) Automatic belt worn around more than	
		one person	
		(6) Lap portion of automatic belt worn	٠.
. Au	tomatic (Passive) Belt System Use	on abdomen	
(0)	Not equipped/not available/destroyed or	(7) Automatic lap and shoulder belt or	
	rendered inoperative	automatic shoulder belt used improperly	
	Automatic belt in use	with child safety seat (specify):	
(2)	Automatic belt not in use (manually disconnected,	Capacity).	
	motorized track inoperative) (specify):	(8) Other improper use of automatic belt system	
		(specify):	
	Automatic belt use unknown	(9) Unknown	
(9)	Unknown	(,, , , , , , , , , , , , , , , , , , ,	
			eren o
		48. Automatic (Passive) Belt Failure Modes	
Au	tomatic (Passive) Belt System Type	During Accident	—
	Not equipped/not available	(0) Not equipped/not available/not in use	••••
(1)	Non-motorized system	(1) No automatic belt failure(s)	
	Motorized system	(2) Torn webbing (stretched webbing not included	1
(9)	Unknown	(3) Broken buckle or latchplate	,
		(4) Upper anchorage separated	
		(5) Other anchorage separated (specify);	
			٠.
		(6) Broken retractor	•
		(7) Combination of above (specify):	
		(8) Other automatic belt failure (specify):	
		(9) Unknown	
		(9) Unknown .	
	UPDATE CANDIDATE?	NO [X] YES [ ]	
oc	CUPANT INJURY FORM INCLUDED WITH	I INITIAL CURNICOLONIA	
	ANTINCE MACHINE MACHINE	INITIAL SUBMISSION? NO [ ] YES	IX.
			•
	TOTO THE	UEDE AAA	
	IE THERE ARE NO R	MERE WW	
	IF THERE ARE NO R	ECORDED INJURIES	
	(I.E., OA43	= 00,97,99)	
	and the second s		
0			



U.S. Department of Transportation
National Highway Traffic Salety
Administration

# **OCCUPANT INJURY FORM**

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

. egg of Wadditantil agricult.

Vehicle Number

**\$**1

Case Number-

DST-94-AB-05

**Occupant Number** 

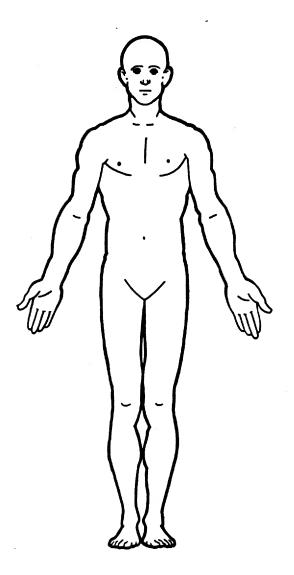
Ø 2

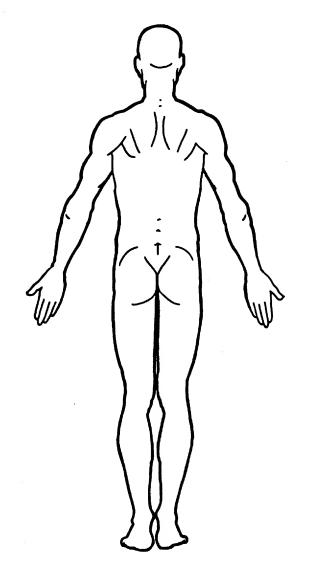
#### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant injury Supplement.

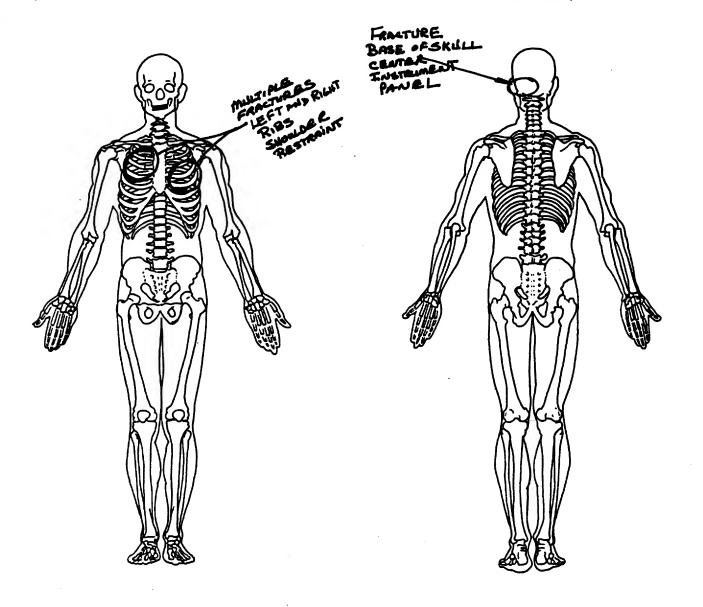
	O	O.I.C.—A.I.S.					Injury			
	Source Tof Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Source Confidence Level	Direct/ indirect injury	Occupant Area Intrusion No.
1at	<b>4</b> 2	o. <u>H</u>	7.1	.E	a.5	10.3	n. <b>1</b> #	12. 🕰	13. <i>I</i>	14. 44.45
2nd	16.2	16 <u>C</u>	17.4	n.E	19. <u>S</u>	20.4	21. <b>4</b> 1	2.2	23. 🔟	24. <b>\$ \$</b>
3rd	25	26	27	24	29	30	31	32	33	34.——
4th	35	34	37	28	39	40	41	42	43	4
5th	45	46	a	4	49	50,	61	52	53	54
<b>B</b> th	55	56	57	54	50	60	61	62	63	64:
7th	65	<b>01</b>	<b>57.</b>	64	69	70,	71	72	73	74.—_
Bth	75	76	71	74_	70	80	81	82	83,	84
9h	85	84	67	<b>38</b>	88	90	91	92_	93	
10th	96	96	97	96	<b>99</b>	100	101	102	103	104

# OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

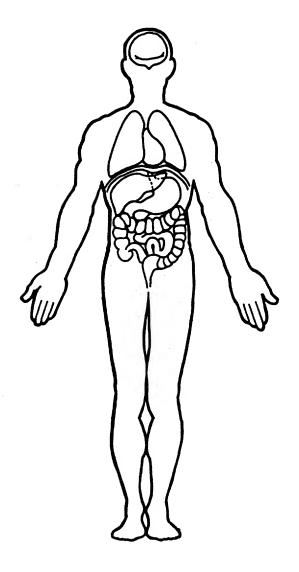


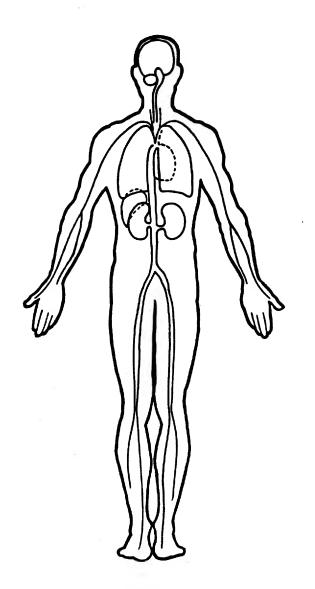


## OFFICIAL INJURY DATA - SKELETAL INJURIES



# OFFICIAL INJURY DATA-INTERNAL INJURIES





1

Vehicle Number  Vehicle Number  Vehicle Model Year Code the last two digits of the model year (99) Unknown  5. Vehicle Make (specify):  CHEVROLET  Applicable codes are found in your NASS CDS Data Collection, Coding, and Editing Manual. (99) Unknown  6. Vehicle Model (specify):  Mente CARLO  Applicable codes are found in your NASS CDS Data Collection, Coding, and Editing Manual. (999) Unknown  7. Body Type Note: Applicable codes are found on the back of this page.  8. Vehicle Identification Number  LE3 T K A I  Left justify: Slash zeros and letter Z (9 and 2) No VIN—Code all zeros Unknown—Code all nine's  OFFICIAL RECORDS  9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (1) Unknown  10. Police Reported Travel Speed  Code to the nearest mph (NOTE: 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	(1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown  Note: See Variables 37 through 55 (Page 4) for Information on Other Drugs  12. Alcohol Test Result for Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown  Source  ACCIDENT RELATED  13. Speed Limit (99) Unknown  14. Attempted Avoidance Maneuver (00) No statutory limit Code posted or statutory speed limit (99) Unknown  14. Attempted Avoidance Maneuver (01) No avoidance actions (02) Braking (lockup) (03) Braking (lockup) (04) Braking (lockup) (05) Releasing brakes (06) Steering left (07) Steering left (09) Braking and steering left (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (19) No driver present (98) Other action (specify):  (99) Unknown  15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact
(99) Unknown	(00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):  (99) Unknown
****SKIP TO VARIABLE GV37 IF GV	/07 DOES NOT EQUAL 01-49***

# **CODES FOR BODY TYPE**

### CDS APPLICABLE VEHICLES

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (08) Other automobile type (specify):
- (09) Unknown automobile type

### **Automobile Derivatives**

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, and Brat)
- (11) Auto based panel (cargo station wagon, includes auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis

#### **Utility Vehicles**

- (13) Short utility—not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)
- (14) Truck based utility (2-door; includes Blazer, Bronco 78 on, Bronco II, Jimmy, Ramcharger, Cherokee, Trailduster, Scout)

### Van Based Light Trucks (* 10,000 lbs GVWR)

- (20) Minivan (Lumina APV, Astro, Caravan, Plymouth Vista, Aerostar, Safari, Voyager [84 and after], Dodge Vista, Mini Ram Van, Toyota Cargo Van, Toyota Van, Vanagon, VW Bus, Kombi)
- (21) Standard van (Sportvan, Chevy Van, Club Wagon, Ford Econoline, Ram Van, Chateau, Ram Wagon, Vandura, Rally, Voyager [83 and before], Beauville, Sportsman)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

# Light Conventional Trucks (Pickup Style Cab, 10,000 lbs GVWR)

- (30) Compact pickup (* 4,500 lbs. GVWR, S-10, LUV, Ram 50, Rampage, Courier, Ranger, S-15 Pup, Mazda Pickup, Mitsubishi Truck, Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup)
- (31) Standard pickup (4,500 to 10,000 lbs. GVWR, C10 C30, K10 K30, T10, D100 D350, W150 W350, F100 F350, Comanche, J10 J30, Dakota)
- (32) Pickup with slide-in camper
- (33) Truck based station wagon (4-door; includes Suburban, Travelall, Wagoneer)
- (34) Light truck based suburban limousine
- (35) Convertible pickup
- (39) Unknown (pickup style) light conventional truck type

# Other Light Trucks (- 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicle, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (47) Other light conventional truck type (not a pickup - includes step vans ≤ 10,000 lbs GVWR, Grumman LLV vehicle) (specify):
- (48) Unknown other light truck type (not a pickup)
- (49) Unknown light vehicle type (automobile, van, or light truck)

### OTHER VEHICLES

### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

### Medium/Heavy Trucks ( ·10,000 lbs GVWR)

- (60) Step van
- (61) Single unit straight truck (10,000 lbs GVWR 26,000 lbs)
- (62) Single unit straight truck ( -26,000 lbs GVWR)
- (63) Medium/heavy truck based motorhome
- (64) Truck-tractor with no cargo trailer
- (65) Truck-tractor pulling one trailer
- (66) Truck-tractor pulling two or more trailers
- (67) Truck-tractor (unknown if pulling trailer)
- (68) Unknown medium/heavy truck type
- (69) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (70) Motorcycle
- (71) Moped (motorized bicycle)
- (78) Other motored cycle type(minibike, motorscooter) (specify):
- (79) Unknown motored cycle type

#### Other Vehicles

- (80) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (88) Other vehicle type (specify):
- (99) Unknown body type

(9) Unknown

	Configur-	ACCIDENT TYPES (Includes Intent)	
	A. Right Roadside Departure	DRIVE OFF CONTROL/ ROAD TRACTION LOSS WITH VEH., PED., ANIM. OTHER	06 S SPECIFICS UNKNOWN
Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFIC OTHER	10 S SPECIFICS UNKNOWN
	C Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFIC OTHER	16 S SPECIFICS UNKNOWN
not vew.	1) Rear-End	20 22 24 26 28 30 (EACH 29 21 23 SLOWER 21, 22, 23 25, 26, 27 29, 30, 31 SPECIFIC OTHER	
II. Same Trafficway Same Direction	F. Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION AVOID COLLISION STACTION LOSS WITH VEH. WITH OBJECT OF	ACH • 42) (EACH • 43) PECIFICS SPECIFICS THER UNKNOWN
-	F. Sideswipe Angle	44 45 45 (EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN
sir S	G Head-On	50 51 (EACH • 52) (EACH • 53)  SPECIFICS SPECIFICS UNKNOWN	
Same Trafficway Opposite Direction	H Forward Impact	CONTROL/ ST AVOID COLLISION AVOID COLLISION S	EACH • 62)(EACH • 63 PECIFICS SPECIFICS OTHER UNKNOWN
=	1. Sideswipe' Angle	65 (EACH • 66) (EACH • 67)  SPECIFICS SPECIFICS UNKNOWN  OTHER	
Change Trafficway Vehicle Turning	J. Turn Across Path	68 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS SP	ACH • 74) (EACH • 75) PECIFICS SPECIFICS THER UNKNOWN
IV. Change Trafficw Vehicle Turning	K. Turn Into Path	76 78 80 83 82 si	ACH • 84) (EACH • 85 PECIFICS SPECIFICS THER UNKNOWN
V. Intersecting Paths (Vehicle	L. Straight Paths	90	ACH • 91) PECIFICS UNKNOWN
VI. Miscel- laneous	M. Backing EIC.	92 93 OTHER VEH. OR OBJECT  BACKING VEH.  98 Other Accident Tyl 99 Unknown Accident 00 No Impact	

r

* GV99 notes: The idea is to document overlap at initial contact. Therefore, divide the direct width of the vehicle with the most narrow direct width by the undeformed end width of the vehicle described on this form.

*** STOP: IF THE CD\$ APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

If this vehicle sustained direct contact across the entire plane at initial contact, then code 100.

National Accident Sampling System-Crashworthiness Dat	System: General Vehicle Form Page
37. Police Reported Other Drug Presence (0) No other drugs present	OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug present) (7) Not reported (8) No driver present (9) Unknown  38. Police Reported Observation/Perception Test Type For Driver (0) No observation/perception test given (1) Drug recognition technician (DRT) determination	Observation/ Perception Specimen Test Results Test Results Narcotic Drug Depressant Drug Stimulant Drug Hallucinogen Drug Cannabinoid Drug Phencyclidine (PCP) Inhalant Drug Other Drug (Excluding Nicotine Aspirin Alcohol
(2) Behavioral (3) Other physical observation/perception determination (specify):	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
(7) Other observation/perception test (8) No driver present	Drugs Administered Post-Crash)  Codes For Observation/Perception Test Results
(9) Unknown if observation/perception test given	(0) No observation/perception test given (1) Passed observation/perception test
39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify):	<ul> <li>(2) Failed observation/perception test</li> <li>(3) Observation/perception test given - results unknown</li> <li>(8) No driver present</li> <li>(9) Unknown if observation perception test given</li> </ul>
(7) Unspecified specimen test (8) No driver present	Codes for Specimen Test Results
(9) Unknown if specimen test given	<ul> <li>(0) No specimen test given</li> <li>(1) Drug not found in specimen</li> <li>(2) Drug found in specimen</li> <li>(8) No driver present</li> <li>(9) Unknown if specimen test given</li> </ul>

** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



U.S. Department of Transportation

HS Form 435A (Rev. 1/91)

# **EXTERIOR VEHICLE FORM**

Administration	Hay hanc salety						110	CRASI	WORTH!	NESS DAT	A SYSTE
	n.	I-9ø-			ehicle N	lumber				d	2
2. Case Nu	ımber US										
		\	EHICLE I	DENT	FICAT	ON					
VIN 1	Z37KA	4					Model	Year	19	80	
Vehicle Mal	ke (specify): <b>CHEY</b>										
remete ivial	ke (specify).	HOLL		CATO		e Mode	l (speci	γ): <b>Μ</b> ε	AITE (	CARLO	
Locate the	end of the damage	with respec				1	- 1'				
impacts or	an undamaged axie	for side im	pacts.	icle lon	igituain	ai cente	r line o	r bumpe	er corne	er for en	d
Specific Impact No	Location of Dire	ct Damage	L	ocation	of Fle	ld L	L	ocation	of Ma	kimum (	Crush
ØI	BELING AT R.F.		RILHT	SIDE, I	FROSTEUR	P. REAL	346.8	NoT /	MEASU	94.À	
62	ROLLOVER - Ha								neasu		
									B		
			CRUSI	H PRC	FILE						
M in Fr th si	II, etc.) and label adjusted and	n driver to p fined as the ons. This ma the value fo	distance be ay include to or each C-m cessary to c	ide in f etween he follo easure	the bas wing: I ment ar	seline a pumper nd maxi	nd the c lead, b imum c	original umper ( rush.	body co	antoire te	aken at usion,
Impact Number	Plane of C-Measurements	Width (CDC)	Max Crush	Field L	C ₁	C ₂	C3	C ₄	C ₅	C ₆	±D
<b>\$1</b>	NOT MEASURED	- CDC	DNLY -	Feom	PHOTI	GRAP	#S				
фZ	2										
<del>V</del> R	ROLLOUER -	CBC	NLH -	FROM	PHOTE	GRAF	HS				
							<del> </del>			<del> </del>	
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										-	
	·								-	-	
								<del>                                     </del>	<del>                                     </del>	1	

		VEHICLE DAMAGE	SKETCH	
a. Rotation phyrestricted RF M: 35/NC LF 2 RR 2 LR 2 (1) Yes (2) N	deflated	ORIGINAL SPECIF		WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)  RF ± M:25:26 °  LF ⊕ 2 6 °  RR ± _ °  LR ± _ °  Within ±5 degrees °  DRIVE WHEELS  FWD 🕱 RWD □ 4WD
☐ Manual	Automatic     ■ Output     Description     Automatic     ■ Output     Description     Description	Undeformed End Width		Approximate Cargo Weight LNKNowN
	X X Y	Original Bumper height  wmper corner Stringline	POST-CRASH	Bumper corner
×	X X	Bumper corner	POST-CRASH	Bumper corner Stringline

NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

. (XX, X) ......

### **CDC WORKSHEET**

### **CODES FOR OBJECT CONTACTED**

#### 01-30 - Vehicle Number

#### Noncollision

- (31) Overturn-rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

#### Collision with Fixed Object

- (41) Tree (≤4 inches in diameter)
- (42) Tree (>4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

#### Nonbreakaway Pole or Post

- (50) Pole or post (≤4 inches in diameter)
- (51) Pole or post (>4 but ≤12 inches in diameter)
- (52) Pole or post (>12 inches in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or Culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):

### (69) Unknown fixed object

### **Collision With Nonfixed Object**

- (71) Motor vehicle not in transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

### **DEFORMATION CLASSIFICATION BY EVENT NUMBER**

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation
<u>ø</u> 1	<u>ø</u> 1	\$7.B	6 6		<u> </u>	E		Extent
							M	<u>ø3</u>
		<u> </u>	-	エ	4	<u> </u>	W	<u> </u>
<u>\$3</u>	61	<u> </u>	<u>\$ \$</u>	· I	D	D	w	<b>ø</b> 3
	. ———			-	-		-	
				-				-
				-	<u></u>			

		COLLIS	ION DEFORM	JATION CLAS	SIFICATIO	N	rage		
HIGHEST D	ELTA "V"				1				
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage <u>Distribution</u>	(7) Deformation Extent		
4. <u>Ø 1</u>	5. <u><b>6</b></u> <u>1</u>	6. <b>6</b> &	7. <b>R</b>	8. <u>Y</u>	9. <b>E</b>	10. <b>W</b>	11. <b>&amp; 3</b>		
Second Hig	Second Highest Delta "V"								
12. <b>Ø</b> 3	13. <b>도</b> 그	14. 👲 🦽	15. <b>工</b>	16. <u>D</u>	17. <u>D</u>	18. 🕊	19. 63		
			CRUS	H PROFILE					
	(The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. ALL MEASUREMENTS ARE IN INCHES.)  HIGHEST DELTA "V"								
20. L	21. 	C2	сз	C4	C5	C6	22. + - D		
NoT	MEASH			-			+ - 		
Second Hi	ighest Delta "	<b>'V''</b>			•				
23. L	24. 	C2		C4	C5	C6	25. + D		
					-		+ .		
26. Are CDCs but Not C Automate (0) No (1) Yes	s Documented Coded on The ed File?		Researcher's A of Vehicle Disp (0) Not towed of vehicle dam (1) Towed due vehicle dam (9) Unknown	ssessment	28. Origin	al Wheelbase Code to the nearest tenth of an ind Unknown	JOET ch		

7.	s T	is A Multi-Stage Manufactured Vehicle	4		
	And	Or A Certified Altered Vehicle?	\$	31. Origin of Fire	
	(0)	No post manufacturer modifications		(0) No fire	
	(1)	Yes - post manufacturer modifications		(1) Vehicle exterior (front, side, back, top)	
		(specify):		(2) Exhaust system	
				(3) Fuel tank (and other fuel retention	
				system parts)	
		(Include photograph of CERTIFICATION	-	(4) Engine compartment	
		PLACARD in case report)		(5) Cargo/trunk compartment	
	(9)	Unknown if vehicle is modified		(6) Instrument panel	
				(7) Passenger compartment area	
				(8) Other location (specify):	
30.	Fire	Occurrence	4		
		No fire	_\$	(9) Unknown	
	` '				
	Yes.	fire occurred		20 m	
		Minor		32. Type of Fuel Tank	1
		Major		(0) No fuel tank (electrical vehicle)	
		Unknown		(1) Metallic	
	(-)	,		(2) Non-metallic	
				(9) Unknown	
				A.	
		*** STOP: IF THE CDS APP	OLICADI	E VEUIOLE MAG MORE	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMF	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMP	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	·
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	PLICABI COMP	LETE THE INTERIOR VEHICLE FORM.	•
		Wall, Cook of On St, Bo Not	COMP	E VEHICLE WAS NOT TOWED *** PLETE THE INTERIOR VEHICLE FORM.	
		*** STOP: IF THE CDS APP (I.E., GV09=0 OR 9), DO NOT	COMP	LETE THE INTERIOR VEHICLE FORM.	
		Wall, Cook of On St, Bo Not	COMP	LETE THE INTERIOR VEHICLE FORM.	
		Wall, Cook of On St, Bo Not	COMP	LETE THE INTERIOR VEHICLE FORM.	
		Wall, Cook of On St, Bo Not	COMP	LETE THE INTERIOR VEHICLE FORM.	
		Wall, Cook of On St, Bo Not	COMP	LETE THE INTERIOR VEHICLE FORM.	
		Wall, Cook of On St, Bo Not	COMP	LETE THE INTERIOR VEHICLE FORM.	
			COMP	LETE THE INTERIOR VEHICLE FORM.	•
			COMP	LETE THE INTERIOR VEHICLE FORM.	•
			COMP	LETE THE INTERIOR VEHICLE FORM.	
			COMP	LETE THE INTERIOR VEHICLE FORM.	

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# INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

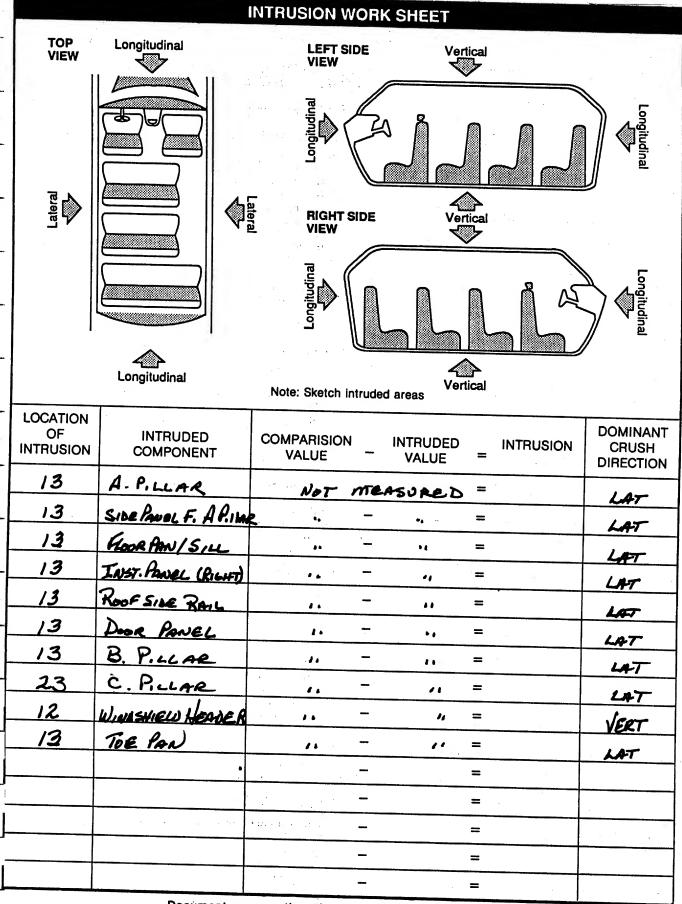
#### GLAZING DSI-90- AB-65 Glazing Damage from Impact Forces Case Number 15.WS 4 16. LF 6 17. RF 6 18. LR 6 19. RR 6 Vehicle Number 20. BL 6 21. Roof 8 22. Other 8 INTEGRITY (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces 4. Passenger Compartment Integrity 98 (3) Glazing in place and holed from Impact forces (4) Glazing out-of-place (cracked or not) and not holed from (00) No intagrity loss Impact forcas Yes, Integrity Was Lost Through (5) Glazing out-of-place and holed from impact forces (01) Windshield (6) Glazing disintegrated from impact forces (02) Door (side) (7) Glazing removed prior to accident (03) Door/hatch (rear) (8) No glazing (04) Roof (9) Unknown if damaged (05) Roof glass Glazing Damage from Occupant Contact (06) Sida window (07) Rear window 23. WS 9 24. LF 9 25. RF 9 26. LR 4 27. RR 9 (08) Roof and roof glass (09) Windshiald and door (side) 28. BL Ø 29. Roof Ø 30. Other Ø (10) Windshield and roof (11) Side and rear window (0) No occupant contact to glazing or no glazing (12) Windshield and side window (1) Glazing contacted by occupant but no glazing damage (13) Door and side window (2) Glazing in place and cracked by occupant contact (98) Other combination of above (specify): (3) Glazing in place and holad by occupant contact BL, BG, B7 (4) Glazing out-of-place (cracked or not) by occupant (99) Unknown contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact Door, Tailgate Or Hatch Opening and holed by occupant contact (6) Glazing disintegrated by occupant contact 5. LF 1 6. RF 3 7. LR 4 8. RR 6 9. TG/H 6 (9) Unknown If contacted by occupant (0) No door/gate/hatch If No Glazing Damage And No Occupant Contact or No (1) Door/gate/hatch remained closed and operational Glazing, Then Code IV 31 Through IV 46 As 0 (2) Door/gate/hatch came open during collision Type of Window/Windshield Glazing (3) Door/gate/hatch jammed shut (8) Other (specify): 31. WS ___ 32. LF ___ 33. RF ___ 34. LR ___ 35. RR ___ (9) Unknown 36. BL 2 37. Roof 4 38. Other 4 (0) No glazing contact and no damage, or no glazing Damage/Failure Associated with Door, Tailgate or Hatch (1) AS-1 - Laminated Opening In Collision. If IV05-IV09 ≠ 2, Then Code 8. (2) AS-2 - Tempered (3) AS-3 - Tempered-tinted 10. LF & 11. RF & 12. LR & 13. RR & 14. TG/H & (4) AS-14 - Glass/Plastic (8) Other (specify): (0) No door/gate/hatch or door not opened (9) Unknown Door, Tallgate, or Hatch Came Open During Collision (1) Door operational (no damage) Window Precrash Glazing Status (2) Latch/strikar failure due to damage 39.WS 1 40. LF 2 41. RF 2 42. LR 1 43. RR 1 (3) Hinge failure dua to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rell, 44. BL __ 45. Roof __ 48. Other __ 4 etc.) failure due to damage (0) No glazing contact and no damage, or no glazing (6) Latch/striker and hinge failure due to (1) Fixed damage (8) Other failure (specify): (2) Closed (3) Partially opened

(4) Fully opened

The design of the

(9) Unknown

(9) Unknown



Document no more than the 15 most severe intrusions

### OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV 47-IV 86 blank. Dominant Location of Intruding Magnitude Crush Intrusion Component of Intrusion Direction 1st 47. 1 3 48. 6 6 49. 7 50. 3 2nd 51. / <u>3</u> 52. <u>2</u> 7 53. <u>7</u> 54. <u>3</u> 3rd 55. 1 3 56. 6 5 57. 7 58. 3 4th 59. <u>/ 3</u> 60. <u>/ 7</u> 61. <u>7</u> 5th 63. 1 3 64. 0 4 65. 9 6th 67. 1 3 68. 1 3 69. 9 7th 71. 1 3 72. 1 6 73. 7 8th 75. 1 3 76. Ø 7 77. 9 9th 79. 2 3 80. Ø 8 81. 9 82. 3 10th 83. 1 2 84. 1 5 85. 9 86. 1 LOCATION OF INTRUSION Front Seat Fourth Seat (11) Left (41) Left (12) Middle (42) Middle (13) Right (43) Right Second Seat (97) Catastrophic (21) Left (98) Other enclosed (22) Middle area (specify): (23) Right

(99) Unknown

Third Seat (31) Left

(32) Middle

(33) Right

### INTRUDING COMPONENT

### **Interior Components**

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A-pillar
- (00) A-pillar (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Door panei (side)
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan (includes sill)
- (18) Backlight header
- (19) Front seat back
- (20) Second seat back
- (21) Third seat back
- (22) Fourth seat back
- (23) Fifth seat back
- (24) Seat cushion
- (25) Back door/panel (e.g., tailgate)
- (26) Other interior component (specify):
- (27) Side panel forward of the A-pillar
- (28) Side panel rear of the A-pillar

#### **Exterior Components**

- (30) Hood
- (31) Outside surface of vehicle (specify):
- (32) Other exterior object in the environment (specify):
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify):
- (99) Unknown

### MAGNITUDE OF INTRUSION

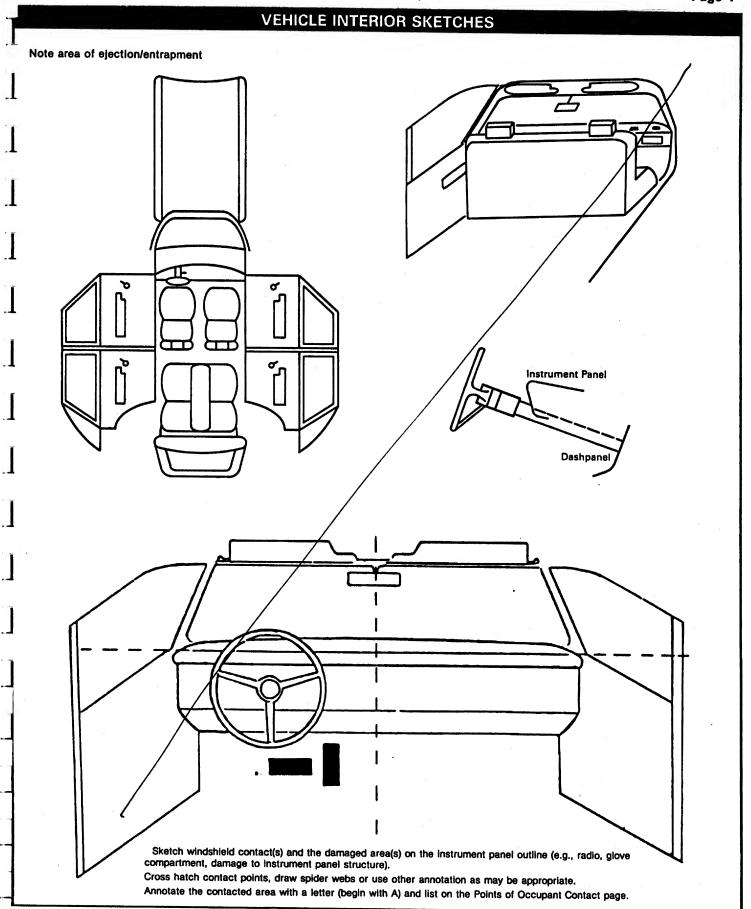
- $(1) \ge 1$  inch but < 3 inches
- $(2) \ge 3$  inches but < 6 inches
- $(3) \ge 6$  inches but < 12 inches
- (4)  $\geq$  12 inches but < 18 inches
- $(5) \ge 18$  inches but < 24 inches
- (6) ≥ 24 inches
- (7) Catastrophic
- (9) Unknown

### DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

COMPARISO	N VALUE	- DAMAG	E VALUE =	= DEFORMATION		
	NOT	MEASUR	ED =			
		•	= .	•	÷	
			=	·		
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		·				
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		· · · · · · · · · · · · · · · · · · ·				

STEERING COLUMN	92. Steering Rim/Spoke Deformation
87. Steering Column Type (1) Fixed column	Code actual measured deformation to the nearest inch.
(2) Tilt column (3) Telescoping column	(0) No steering rim deformation (1-5) Actual measured value
(4) Tilt and telescoping column	(6) 6 inches or more
(8) Other column type (specify):	(8) Observed deformation cannot be measured
(9) Unknown	(9) Unknown
(e) Cimilotti	93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation
	Quarter Sections (01) Section A
	(02) Section B
88. Blank XX	(03) Section C
triis variable is left blank so that numbering consistency	(04) Section D
can be maintained with the 1988-90 CDS.	Half Sections
	(05) Upper half of rim/spoke (06) Lower half of rim/spoke
	(07) Left half of rim/spoke Lour Left Right
89. Blank	(08) Right half of rim/spoke
(This variable is left blank so that numbering consistency	(09) Complete steering wheel collapse
can be maintained with the	(10) Undetermined location
1988-90 CDS.	(99) Unknown
	INSTRUMENT PANEL
90. Blank ✓ ✓ ✓	94. Odometer Reading
(This variable is left blank	miles – Code mileage to the
so that numbering consistency can be maintained with the	nearest 1,000 miles (000) No odometer
1988-90 CDS.	(001) Less than 1,500 miles
	(300) 299,500 miles or more (999) Unknown
	Source:
91. Blank 조조조	The company of the co
(This variable is left blank so that numbering consistency	95. Instrument Panel Damage from
can be maintained with the 1988-90 CDS.	Occupant Contact?
(50°-80°-000)	(1) Yes
	(9) Unknown
	96. Knee Bolsters Deformed from
	Occupant Contact?
	(0) No (1) Yes
	(8) Not present
	(9) Unknown
	97. Did Glove Compartment Door Open
	During Collision(s)?
	(0) No (1) Yes
*	(8) Not present
	(9) Unknown
*	,



		CIIVI	S OF OCCUP	ANT CONTAC	<u>ا ر</u>			
Contact	Interior Occupant Component No. If Contact Contacted Known		If If			ng Physical Evidence		
A NONE TRANSFICE				- Oupporting	, i ilysic	ar Evidence	Point	
В	NONE	. DENTIFIED			1 2			
С	-							
			l					
E	·	<del></del>		*		<del></del>	-	
							-	
F	ļ					·····		
<u> </u>							ļ	
<u>H</u>				<del></del>		***		
<u> </u>					-			
J								
K								
L								
M								
N								
(06) Steerin codes (17) Steerin selecto (18) Add on deck, a (19) Left ins (10) Center (11) Right in (12) Glove (13) Knee b (14) Windsh of the final steering (15) Windsh of the final steering (15) Windsh of the final steering (15)	g wheel hub/spoke g wheel (combination) d and 05) g column, transmiss r lever, other attachn equipment (e.g., CE ir conditioner) trument panel and trument panel and compartment door	n of RIGHT ion (30) nent 3, tape (31) celow (33) d below (34) below (35) or more (36) der, A- rror,or ide only) or more (37) der, A-	frame, window sill, A-pillar, B-pillar, or roof side rail (27) Other left side object (specify):  RIGHT SIDE (30) Right side interior surface, excluding hardware or armrests (31) Right side hardware or armrest (32) Right A pillar (33) Right B pillar (34) Other right pillar (specify):  (35) Right side window glass or frame (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, or roof side rail (37) Other right side object (specify):		ROOF (50) (51) (52) (53) (54) FLOOR (56) (57) (58) (59)	Front header Rear header Roof left side rail Roof or convertible Floor including toe Floor or console m transmission lever, console Parking brake hand Foot controls include brake  Backlight (rear wine	top  pan ounted including le ding parking	
(passer (16) Other f LEFT SIDE (20) Left sic hardwa (21) Left sic (22) Left A (23) Left B	nger side only) ront object (specify)  le interior surface, es are or armrests le hardware or armre pillar	: INTER	IOR ) Seat, back supporting the second secon	bbing/buckle pillar attachment system component stem	(61)	CONFIDENCE LE CONTACT PO  (1) Certain (2) Probable (3) Possible	ack, door, etc. specify):	
		IA7	(47) Interior loose objects			(4) Unknowr		

CHILD SAFETY SEAT	FIELD ASSESSMENT					
When a child safety seat is present enter the occupan below the occupant's number using the codes listed below	t's number in the first row and complete the column ow. Complete a column for each child safety seat present					
Occupant Number						
1. Type of Child Safety Seat						
2. Child Safety Seat Orientation						
3. Child Safety Seat Harness Usage						
4. Child Safety Seat Shield Usage						
5. Child Safety Seat Tether Usage						
6. Child Safety Seat Make/Model Spec	cify Below for Each Child Safety Seat					
1. Type of Child Safety Seat	3. Child Safety Seat Harness Usage					
<ul> <li>(0) No child safety seat</li> <li>(1) Infant seat</li> <li>(2) Toddler seat</li> <li>(3) Convertible seat</li> <li>(4) Booster seat</li> <li>(7) Other type child safety seat (specify):</li> </ul>	<ul> <li>4. Child Safety Seat Shield Usage</li> <li>5. Child Safety Seat Tether Usage</li> <li>Note: Options Below Are Used for Variables 3-5.</li> <li>(00) No child safety seat</li> </ul>					
(8) Unknown child safety seat type (9) Unknown if child safety seat used  2. Child Safety Seat Orientation (00) No child safety seat	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used  Designed with Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used					
Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (03) Other orientation (specify):						
(04) Unknown orientation	(19) Unknown if harness/shield/tether used Unknown if Designed with Harness/Shield/Tether					
Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing	(21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used					
(18) Other orientation (specify):	(99) Unknown if child safety seat used					
(19) Unknown orientation	Child Safety Seat Make/Model     (Specify make/model and occupant number)					
Unknown Design or Orientation for This Age/ Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):						
(29) Unknown orientation						
(99) Unknown if child safety seat used						

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### **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

Δ	IR	RΔ	GS

	•	4 .	
		Left	Right
-	Availability/Function	ø	Cb
Ŕ	Deployment	d	4
S	Failure	<i>A</i>	4
			<i>(</i> 2)

#### Air Bag System Availability/Function

- (0) Not equipped/not available (1) Air bag

#### Non-functional

- (2) Air bag disconnected (specify):
- Air bag not reinstalled
- (9) Unknown

#### Air Bag System Deployment

- (0) Not equipped/not available
  (1) Air bag deployed during ac
- Air bag deployed during accident
- Air bag deployed inedvertently just
- prior to accident Air bag daployed, accident sequence
- undetermined
- Nondeployed
- (5) Unknown if deployed
- (9) Unknown

### Did Air Bag System Fail?

- (0) Not equipped/not available
  (1) No
- (2) Yas (specify):
- (9) Unknown

### **AUTOMATIC BELTS**

1			
ļ		Left	Right
_	Availability/Function	Ø	4
F	Use	6	4
Ŕ	Туре	4	$\varphi$
S	Proper Use	<u> </u>	Φ
	Failure Modes	$\frac{\varphi}{2}$	Φ
	I guid a Minne?	$\mathcal{D}$	Ø

### Automatic (Passive) Belt System Availability/Function

- (O) Not equipped/not available
- (1) 2 point automatic balts 3 point automatic belts
- (3) Automatic balts type unknown

#### Non-functional

- Automatic belts destroyed or rendered (4) inoperative
- (9) Unknown

### Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoparativa
- Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

### Automatic (Passive) Belt System Type

- (0) Not equipped/not available (1) Non-motorized system
- Motorized system
- (9) Unknown

- Proper Use of Automatic (Passive) Belt System
  - (0) Not equipped/not available/not used
  - (1) Automatic belt used properly
  - Automatic belt used properly with (2) child safety seat

### Autometic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (8) Lap portion of automatic belt worn
- on abdomen
- (7) Automatic lap and shoulder belt or automatic shouldar belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

### Automatic (Passive) Belt Failure Modes During Accident

- (0) Not aquipped/not available/not in usa
  (1) No automatic belt failure(s)
- Torn webbing (stretched webbing not included) Brokan buckla or latchplate
- (3) (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- Combination of above (specify):
- Other automatic belt failure (specify):
- (9) Unknown

### MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	4	3	4
Ř S T	Use	\$6	Ø Ø	<b>66.99</b>
	Failure Modes	ø	ø	\$
S E	Availability	3	3	3
<b>SECOZD</b>	Use	φφ	Øø	Ø Ø
	Failure Modes	ø	ø	ø
T H	Availability			
1	Use			3
R D	Failure Modes			
O _T	Availability			
H	Use			
R	Failure Modes			

Manual (	Active	Belt S	vstem	Availa	bility
····	100000		7366111	~valia	IN IN LT

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown
- (8) Other belt (specify):
- (9) Unknown

#### Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

#### Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

9038X

 $\sum_{i=1}^{n} (i)^{n} (i) = 1$ 

- (09) Other seat type (specify): __
- (99) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E. UNUSUAL OCCUPANT CONTACT PATTERN)

		V	MENT DA				
Complete the following if the research in the vehicle. Code the appropriate	her has any i data on the	indications t	hat an occup Assessment	ant was Form.	either ejecter	d from or ent	rapped
EJECTION No [ ] Yes [ ] Describe indications of ejection and							
	<u> </u>				· ·		
<u> </u>			- *				
			×		*		
Occupant Number							7
Ejection				,			
(Note on Vehicle Interior Sketch) Ejection Area							
Ejection Medium	,		*				
Medium Status							
Ejection  (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown  Ejection Area  (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(9) Unk (9) Unk Ejection M (1) Doo (2) Non (3) Fixed	ner area (e kup, etc.) (sp nown	gate tructure	Of (8  - (9  Med to In (1) (2) (3)	i) Integral str ii) Other med iium Status ( npact) i) Open i) Closed i) Integral str i) Unknown	dium (specify	
ENTRAPMENT No [X] Yes [  Describe entrapment mechanism:							
					•		
Component(s):							
(Note in vehicle interior diagram)							

# BEST AVAILABLE Form Approved

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

### **OCCUPANT ASSESSMENT FORM**

11. Occupant's Posture (0) Normal posture DSI-90-AB-05 (1) Abnormal posture (specify): Case Number (9) Unknown Vehicle Number **EJECTION/ENTRAPMENT** Occupant Number 12. Ejection OCCUPANT'S CHARACTERISTICS (0) No ejection (1) Complete ejection 5. Occupant's Age (2) Partial ejection Code actual age at time of accident. (3) Ejection, unknown degree (00) Less than one year old (specify by month): (9) Unknown (97) 97 years and older 13. Ejection Area (99) Unknown (0) No ejection (1) Windshleld 6. Occupant's Sex (2) Left front (1) Male (3) Right front (2) Female (4) Left rear (9) Unknown (5) Right rear (6) Rear 7. Occupant's Height (7) Roof Code actual height to the nearest inch. (8) Other area (e.g., back of pickup, etc.) (99) Unknown (specify): _ 99 (9) Unknown 8. Occupant's Weight Code actual weight to the nearest pound. 14. Ejection Medium (999) Unknown (0) No ejection (1) Door/hatch/tailgate 9. Occupant's Role (2) Nonfixed roof structure (1) Driver (3) Fixed glazing (2) Passenger (4) Nonfixed glazing (specify): (9) Unknown (5) Integral structure 10. Occupant's Seat Position (8) Other medium (specify): Front Seat (11) Left side (9) Unknown (12) Middle (13) Right side (14) Other (specify): 15. Medium Status (Immediately Prior to Impact) (15) On or in the lap of another occupant (0) No ejection (1) Open Second Seat (21) Left side (2) Closed (22) Middle (3) Integral structure (23) Right side (9) Unknown (24) Other (specify): (25) On or in the lap of another occupant 16. Entrapment Third Seat (NOTE: Entrapped means that part of the (31) Left side person was in the vehicle and mechanically (32) Middle restrained; jammed doors and immobilizing (33) Right side injuries by themselves are not sufficient to (34) Other (specify): (35) On or in the lap of another occupant constitute entrapment.) (0) Not entrapped Fourth Seat (1) Entrapped (41) Left side (9) Unknown (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify):_ (99) Unknown

National Accident Sampling System - Crashworthiness D	ata System: Occupant Assessment Form	Page 2
RESTRAINT SYSTEM AND SEAT EVALUATION	At Al- Bardon and a second	.4
17. Manual (Active) Belt System Availability	21. Air Bag System Availability/Function	Ø
	(0) Not equipped/not available	•
(0) Not available	(1) Air bag	
(1) Belt removed/destroyed		
(2) Shoulder belt	Non-functional	
(3) Lap belt	(2) Air bag disconnected (specify):	
(4) Lap and shoulder belt	(2) All bug discommence (specity).	
(5) Belt available—type unknown	(2) Air has not released	_
(8) Other belt (specify):	(3) Air bag not reinstalled	
	(9) Unknown	
(9) Unknown	*	
<b>*</b>	22. Air Bag System Deployment	_Ø
18. Manual (Active) Belt System Use	(0) Not equipped/not available	
(00) None used, not available, or belt	(1) Air bag deployed during accident	
removed/destroyed	(2) Air bag deployed inadvertently just	
(01) Inoperative (specify):	prior to accident	
(02) Shoulder belt	(3) Air bag deployed, accident sequence	
(03) Lap belt	undetermined	
(04) Lap and shoulder belt	(4) Nondeployed	
(05) Belt used—type unknown	(5) Unknown if deployed	
(08) Other belt used (specify):	(9) Unknown	
fort anim. con cond tabasists		
(98) Chauldes half wand with abild and the anat	23 Did Air Beg Sustan Eail?	74
(12) Shoulder belt used with child safety seat	23. Did Air Bag System Fail?	-42
(13) Lap belt used with child safety seat	(0) Not equipped/not available	
(14) Lap and shoulder belt used with child safety	(1) No .	
seat	(2) Yes (specify):	
(15) Belt used with child safety seat - type unknown		
(18) Other belt used with child safety seat	(9) Unknown	
(specify):	(7) Canadonia	
(99) Unknown if belt used	H	
19. Proper Use of Manual (Active) Belts	No. 21 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Total Coper and a minimum plant of point	Note: See Variables 44 through 48 (Page 5)	•
(0) None used or not available	for Information on Automatic Belts	
(1) Belt used properly		
(2) Belt used properly with child safety seat	24 Police Property Control to Line	6
	24. Police Reported Restraint Use (0) None used	-
Belt Used Improperly	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(3) Shoulder belt worn under arm	(1) Police did not indicate restraint use	
(4) Shoulder belt worn behind back or seat	(2) Shoulder belt	
(5) Belt worn around more than one person	(3) Lap belt	
(6) Lap belt worn on abdomen	(4) Lap and shoulder belt	
(7) Lap belt or lap and shoulder belt used	(5) Belt used, type not specified	
improperly with child safety seat (specify):	(6) Child safety seat	
	(7) Other or automatic restraint (specify):	
(8) Other improper use of manual belt system		_
(specify):	(8) Restrained, type unknown	
/aboatt.	(9) Police indicated "unknown"	
(9) Unknown	25. Head Restraint Type/Demage by Occupant	2
20. Manual (Active) Belt Failure Modes	at This Occupant Position	2
During Accident	(0) No head restraints	
	(1) Integral - no damage	
(0) No manual belt used or not available (1) No manual belt failure(s)	(2) Integral - damaged during accident	
(2) Torn webbing (stretched webbing not included)	(3) Adjustable—no damage	
(3) Broken buckle or latchplate	(4) Adjustable - damaged during accident	
(4) Upper anchorage separated	(5) Add-on—no damage	
(5) Other anchorage separated (specify):	(6) Add-on—damaged during accident	
(2) 2 miles and a cope and (append)	(8) Other (specify):	
(6) Broken retractor		
(7) Combination of above (specify):	(9) Unknown	-
(8) Other manual belt failure (specify):	(0) 0	
(a) Other menual part landra (apacity):		•
(9) Unknown	A.	·
•	' '	

lational Accident Sampling System - Crashworthiness D	ata System: Occupant Assessment Form Page 3
26. Seat Type (This Occupant Position)	30. Child Safety Seat Orientation
(00) Occupant not seated or no seat	(00) No child safety seat
(01) Bucket	(00) NO clinic salety seat
(02) Bucket with folding back	Designed for Deen Feeing for Thin A se 844 Late
	Designed for Rear Facing for This Age/Weight
(03) Bench	(01) Rear facing
(04) Bench with separate back cushions	(02) Forward facing
(05) Bench with folding back(s)	(08) Other orientation (specify):
(06) Split bench with separate back cushions	
(07) Split bench with folding back(s)	(00) Unknown orientation
(08) Pedestal (i.e., van type)	(09) Unknown orientation
(09) Other seat type (specify):	
(00) 0000 0000 () po (0) 0000 () //	Designed for Forward Facing for This Age/Weight
	(11) Rear facing
(99) Unknown	(12) Forward facing
The first of the state of the s	(18) Other orientation (specify):
27. Seat Performance (This Occupant Position)	
(0) Occupant not seated or no seat	(40) 11-1
(1) No seat performance failure(s)	(19) Unknown orientation
(2) Seat adjusters failed	
(3) Seat back folding locks falled	Unknown Design or Orientation for This
(4) Seat track/anchors failed	Age/Weight, or Unknown Age/Weight
(5) Deformed by impact of occupant	(21) Rear facing
(6) Deformed by passenger compartment intrusion	(22) Forward facing
(specify):	(28) Other orientation (specify):
(5655)	(20) 0.1.0. 0.1.0.1.0.1.(0.000.1)
	(29) Unknown orientation
	·
	(99) Unknown if child safety seat used
(7) Combination of above (specify):	and the state of t
	31. Child Safety Seat Harness Usage
(8) Other (specify):	· · · · · · · · · · · · · · · · · · ·
(b) Other (specify).	32. Child Safety Seat Shield Usage
	33. Child Safety Seat Tether Usage
(9) Unknown	
	Note: Options below applicable to
	Variables OA31-OA33.
	(00) No child safety seat
CHILD SAFETY SEAT	Not Designed with
True of the holy of half of the second of the property of the second of the holy of the second of th	Harness/Shield/Tether
28. Child Safety Seat Make/Model 20 0	(01) After market harness/shield/tether added, not
(000) No child safety seat	used
Applicable codes are found in your NASS CDS	(02) After market harness/shield/tether used
Data Collection, Coding, and Editing Manual	(03) Child safety seat used, but no after market
	harness/shield/tether added
(997) Other make/model (specify):	(09) Unknown if harness/shield/tether
	added or used
(998) Unknown make/model	added or used
(999) Unknown if child safety seat used	Destroyed with the second seco
	Designed with Harness/Shield/Tether
29. Type of Child Safety Seat	(11) Harness/shield/tether not used
(0) No child safety seat	(12) Harness/shield/tether used
(1) Infant seat	(19) Unknown if harness/shield/tether used
(2) Toddler seat	Unknown If Designed with Harness/Shield/Tether
(3) Convertible seat	(21) Harness/shield/tether not used
(4) Booster seat	(22) Harness/shield/tether used
(7) Other type child safety seat (specify):	(29) Unknown if harness/shield/tether used
	(23) Olikilowii ii Harness/snield/tetner used
(8) Unknown child safety seat type	(00) I lakananan if ahiid aafaa aa
(9) Unknown if child safety seat used	(99) Unknown if child safety seat used
(c) Chichester is child safety seat fised	*
	•

· January Carry

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INJURY CONSEQUENCES	38. Working Days Lost Page 4
34. Injury Severity (Police Rating) (0) O-No injury (1) C-Possible injury (2) B-Nonincapacitating injury (3) A-Incapacitating injury (4) K-Killed (5) U-Injury, severity unknown (6) Died prior to accident (9) Unknown	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown  39. Time to Death
35. Treatment—Mortality (0) No treatment (1) Fatal (2) Fatal—ruled disease  Nonfatal (3) Hospitalized (4) Transported and released (5) Treatment at scene—nontransported (6) Treatment later	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal (96) Fatal—ruled disease (99) Unknown
(8) Treatment later (8) Treatment—other (specify):  (9) Unknown	40. 1st Medically Reported Cause of Death 999 41. 2nd Medically Reported Cause of Death 999
36. Type of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	42. 3rd Medically Reported Cause of Death  — Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify):  (99) Unknown
(9) Unknown  37. Hospital stay  —— Code number of days (up through 60) that the occupant stayed in the hospital (00) Not hospitalized (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant — Code the actual number of Injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured
98. Glascow Coma Score (upon admission)	99. Case Occupant
(99) Unknown	(0) Not the Case occupant (1) This is the Case occupant (2) This is the Case occupant in another case
UPDATE CANDIDATE	NO[] YES[]
IF THERE ARE NO R	HERE *** ECORDED INJURIES =00, 97, 99)

**UPDATE CANDIDATE?** 

NO [X] YES [ ]

OCCUPANT INJURY FORM INCLUDED WITH INITIAL SUBMISSION? NO [ ] YES [X]

*** STOP HERE ***

IF THERE ARE NO RECORDED INJURIES

(I.E., OA43 = 00,97,99)



US Department of Transportation
National Highway Traffic Safety
Administration

### **OCCUPANT INJURY FORM**

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Vehicle Number

02

Case Number-

DST-90-AB-05

**Occupant Number** 

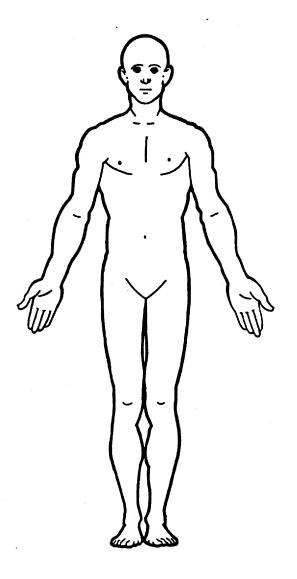
01

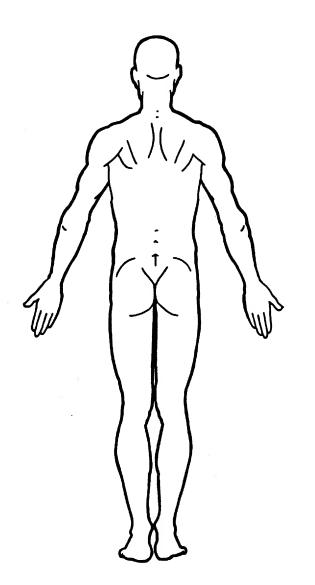
### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant injury Supplement.

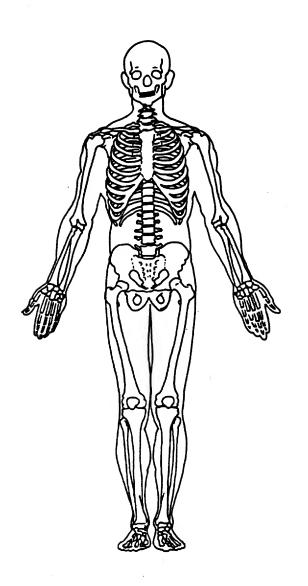
	O.I.C.—A.I.S.						Injury			
000000000000000000000000000000000000000	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1a)	s. <u>2</u>	॰ त्	7.4	*#	eН	10. <b>Z</b>	11.27	12.2	13. <b>7</b>	14.22
2nd	15	16	17	18	19	20	21	22	23	24
3rd	25	26	27	24_	29	30	31	32	33	***
4th	35	34,	37	28	39	40	41	42	43	44
5th	45	44	a	41	49	50	51,	52	53	54
6th	56	56	67	59	<b>59</b>	<b>60.</b>	61	82	63	44
7th	66	<b>94</b>	67	<b>64.</b>	69	70	71	72	73	74.—
Bth	75	74	77	74	79	80	81	82	83	84
<b>9</b> th	85	84	<b>67.</b>	<b>38.</b>	<b>88.</b>	90	91	92	93	ω
10th	95	95	97	96	99	100,	101	102	103	104

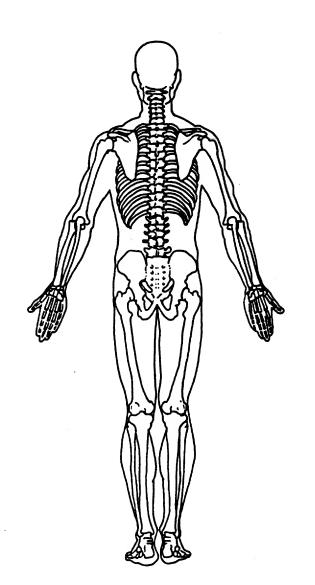
# OFFICIAL INJURY DATA - SOFT TISSUE INJURIES



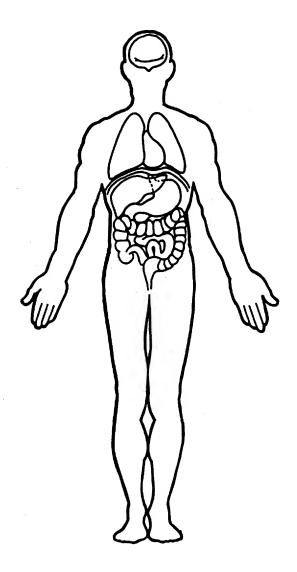


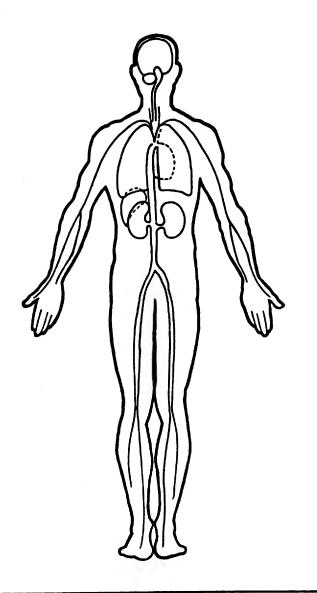
# OFFICIAL INJURY DATA – SKELETAL INJURIES





# OFFICIAL INJURY DATA - INTERNAL INJURIES





BEST AVAILABLE CIRCLE THE APPROPRIATE SELECTION Area ENALTY: Deserment Comparine No. Number Heudo SEU TON DO OFFICIAL TRAFFIG ACCIDENT REPORT Acident Plat Herstille Time Time Route Nos Na. Un MIL N S G W 90 TOTALNO 2 DION ROAD SURFACE No. le HEATHER ? Divided CONTRACTION TORR 3 Scour of ley 3 Street Lights Ory 2 Limited Access : Day (2) N Investure at Sens ① George Gesser 1 Reia No. Ki 2 Wes 4 Our O OIEW 4 Snow HED Test Helites Russ Circuit Charge YelSeeds Will Brake Letters Living Tran Numbers Inter Yes Mare No. Type Trade | Fir 1237KA 1474431 80 0 13 1 1 0 •••• THE CITE YEDDITOR Re-seam Joy @ Henck Sefer W @ Tuck Lakings Y M Cargo Spillage Cre YEN Vales Ordersen Y Ofen Drivenie W Orderige Fire Carpe Description Y WOUND CHEEAR FOE | AGE | 201 IG M Y N **CE** countr COL 4 2.0r ÇA. Apper Address He Cicacion Carros YENYN -52321 71 M Removed to/31 THESE VIN (Nuite Latters Larger Tings Nursingers) IG4HP54C4LE 90 10 11 Truck Cargo: Y M Cargo Spiles Y Wesiele Deite Caree Description Y DYAL Drivesole ic: Y :: 68 P Ė 2 R C Agency Actives insures Co. Local Ligal Querer, Prose (IT Van. Type 7 or 8, Liez Carrier) ACCIDENT DESCRIPTION AND REWARKS ("EXPERI VEHICLE #1 WAS WESTBOUND ON MORTH APPARENT HIGH RATE OF SPEED ANOTHER WESTBOUND VEH. #2 HAD BEEN SOUTHBOUND ON: A STOP, THEN PROCEEDED EAST ON VEEICLE #1 HAD MANUEVERED INTO THE EASTBOUND LANE OF TRAVEL, OUT OF CONTROL AND WAS STRUCK BY VEH. #2. THE DREVER OF AND THE PASSENGER IN VEH. #2 VEHICLE #1. WERE BOTH PRONCONCED DEAD AT THE SCENE SEE SUPPLEMENTS FOR MORE DETAILS عوسيها CONTROL DEVICES Badge No. Demaged Property Owner Than Vehicle ACTINE of Passon Advised of Carreges Traffic Control Germa Comp Character Review Time raes

FORWARD COPY TO-

*Use Accident Description and

この10年以来の企業の中等用品製造機工

ger for

# TRAFFIC SERVICES DIVISION

COMP

### VEHICLE EVALUATIONS:

Vehicle number one is a 1980. Chevrolet/Monte Carlo/2dr/red in color. V.Y.N.#1Z37KA1 REGISTRED OWNER: The vahicle has a sutomatic transmission, with a V-8 engine. This officer exemined the listed vehicle both at the scane and then agein on 90 at 9:30 AM at been secured inside by order of this reporting officer. where it had this officer took photographs of the vehicle which included the basic 16 shots around the vehicle and then some additional photos of which this officer thought was per-Vehicle #1 sustained heavy contact damage on the passenser side, starting near the front and working towards the passanger side door, there is induced damage to the front hood, roof end rear trunk area which would have been caused when the vehicle landed on its drivers side after soing airborne when it was struck by Vehicle #2. An examination was done on the headlights of vehicle #1, which would indicate that the vehicle did not have it's lights, (bright or low beam), on at the time of the accident. The brake lights were also checked, they also indicated at the time of impact that the brake lights were not on. This officer examined the seatbelt of the driver, there was no sign that the driver was wearing the seatbelt. (lap/shoulder type), at the time of the accident. The tires on the vehicle were all the same type and model, that being Goodyear Eagle/size left front/right rear and left rear, were all inflated. however the tread depth appeared very low. The tread depth on the right front tire was less than 2/32 of a inch, and the wear bars could be seen. The right front tire was flat, with the rim being bent from impact, thus the loss of air-pressure. red paint on both the sidewall of the right front tire and on the rim, this would more than likely come from the front end of vehicle #2, where this officer noted a black scrub. front wheel had been severed from the axle during impact. The right

### VEHICLE #2:

Vehicle #2 is a 1990 Buick/Le Sabre/4dr/Red in color/OH 91 REGISTRED OWNER 154HP54C4LH

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# TRAFFIC SERVICES DIVISION

### COMP .

Vehicle #2 was also examined briefly at the scene of the accident end then again in detail on reporting officer, (Deputy, This officer took the basic 16 shots of the exterior of the vehicle and in addition took some photos which may be pertinent to the death of the vehicle #2 sustained heavy contact damage to the front end of the vehicle with additional light contact damage along the drivers side, this bains a secondary size type of impact when vehicle #1 rotated. This officer observed, (and photographed), broken red plastic lens, which appears to have come from the brake light eres on the passenger side of vehicle #1. There is also the lighter red colored saint of vehicle #1 imbeded on the rear window pilliar; (drivers side), of vehicle #2, this would have come when vehicle #1 was soing airborne and came in contact with Officer could not determine if the headlights of vehicle #2 were on at the time of impact, due to the fact that they were destroyed by impact to a point which would not allow an examination. Officer attempted to determine if the lights were on by looking at the light switch however this area was damaged body at impact, again leaving the way to make a determination. The tires of vehicle #2 were of all the same make This officer noted two sashes in the front windshield which would have appeared to been caushed when the engine hood was pushed back from impact and the corner of the hood, (drivers side), penetrated the windshield. Officer measured both these gashes. the largest being 11 inches and the second being 6 inches long. Both sashes appeared to have a creasent shape to them and it was noted that a red painted was visable around the sharp edges, this material was photographed, in addition this officer noted that there was some scrapping on the top of the engine hood, approx. 7 inches inward from the corner, (drivers side), which spears to be consistent with the hood penetrating the front windshield This vehicle has a automatic transmission, and the odometer indicating 19029.2 miles. The seatbelts were exemined on this vehicle for both the driver and front seat passenger. noted that the driver did not appear to have been wearing the lap/shoulder type herhess at the time of the impact, and the pastern front seat subject did appear to have been wearing her? This officer noted that DEPUTY

# TRAFFIC SERVICES DIVISION

COMP

there was grey hair in the upper left quadrent of the passenger compartment, which would indicate that Mr was not wearing his belt, in addition he stated to this officer that he was not wearing his seatbelt at the time of the accident was wearing a blond wig at the time of impact. WITNESS STATEMENT:



Reporting officers were working the afternoon shift, (2pm to 10pm) or hat approximately 1652 hrs officers overheard radio traffic involving a personal injury accident at the intersection of
patch sent

is the primary response vehicle.At the time of this radio traffic R/O's were at

R/O's began working in that general direction in the event that the professor needed assistance. When officers reached additional radio traffic was overheard by rescue units on the scene that there was at least one person dead at the crash scene At that time R/O's responded directly to that scene while advising dispatch to send also advised dispatch to contact also.Writers

d ______also.Writer Officers arrived on the scene traveling west on Rd_Upon errival officers saw two crashed vahicles with rescue

workers attending to the occupants of the vehicles.

Chevroler Monte Carlo that was up on its drivers side. Officer notice a white male in the wreckage of the Monte Carlo.

was standing with the drivers father My Sr.

was very distraught and asked permission to identify his sone body who was dead at the ecene. body who was dead at the scene.

driver of the Chevrolet as Beins his son identified the When Deputy

When Deputy

of intoxicants was detected coming from the inside of the car. When body was removed from the wreckage a budweiser beer bottle was found underneath him containing approximately 2 Officer was then approached by

of the volunteer Fire Department.

when advised that there was an elderly female was an elderly female upright wast of the vehicle. He told officers that an elderly male was the driver of the Buick and they were extracating him from the vehicle. Once he was removed from the vehicle he was transported to the University of is E.M.T.S ambulance service of Depitel into

At this time officer directed Reserve Deputy start sathering any witness information from the people that were

standing around the scene of the accident.

Deputy

Scene. Shortly thereafter Deputy

WITHESS: As officer was talking to Deputy

white female came up to report her involvement in the accident. She told this writer that she was the first person on the scene after the crash but did not see the actual collision. Writer advised her to write

and that one of the officers note pad that was supplied to and that one of the officers on the scene would take her st. ment in a matter of minutes. This person identified hersely being

Officer on scene: Lt.

,Deputies

and Res.Deputy

Fire Rescue: ..... sonnel is contained in Res.Deputy

V.F.D. A list of Tire per supplement.

Ambulance Service: E.M.T.S. of

and

Medical Examiner on Scane: Dr aminer of Chief Madical Ex-

Wrecker Service:

under the direction of

Media on Scene: Camera person from

Weather Conditions: Obtained from stro Weather Service..

Temperature 56 degrees (F)

Winds South at 14mph

Saromatric Pressure steady at 29.97

Daw Point 44

Visability 7 miles with mostly cloudy

skies

Roadway Profile:

in an asphault paved road that runs east and west. It has one lane for each direction. The roadway is divided by broken yellow lane lines and there is a solid yellow line in the accident location indicatins no passing for traffic in either direction. The roadway surface is traveled but not considered polished as the paving is fairly recent. The surface showed no extreme deformities however, minor surfacing cracking was present. The road is bordered by gravel shoulders on each side. The south shoulder measured 2.0 ft. The east bound lane measured 10.0 ft. The westbound lane measured 10.3 ft. And the north side shoulder measured 3.4. ft.

is a gravel roadway that runs north and south. There is one lane for each direction, however, there are no treffic control devices present to identify the lanes. The roadway is 22 feet wide with no shoulders present. The roadway is in good repair displaying minor potholes and bumps. There are posted stop sign for both north and southbound traffic.

(FA)

### TRAFFIC SERVICES DIVISION

WITNESS INFORMATION:

D.Q.E.

approached officers approximately one hour afte accident and ha relayed the following information. Mr. hunting in a wooded area that is located northeast of the dent scene. He said that he heard a vehicle accelerate rapic short time later heard heard tires squealing and then hear loud crash. Seconds later he heard tires equaling and then noise stopped. Seconds later he heard a vahicle accelsi rapidly and again heard tires equalling. He said the vehicle treveling east on ( and he heard the engine of vehicle rev down when it approached the bridge in the road ex of the accident scene. He said the vahicle was definitely equip: with an eight cylinder motor and the exhaust sounded like it w · leaking. was a professional body repairman and is ve familiar with the sounds of engines. He did not see any vahicles however. When he came out of the woods he saw all of the emer gency lights and then walked to the accident scene to report wha he had heard.

Deputies

then measured the accident scene. Wreckers were summoned and the vehicles were then removed. A hold was placed on each vehicle until the investigation is completed. Officers then directed Deputy to interview the witnesses and to attend the autopsy to be performed on ineral home at 8:00pm that evening. Deputy son then instructed Res. Deputy to take and attend the autopsy also. Deputies nen ieft the scene and went to the University of Hospital in to talk to and his family.

officers arrived at the but were unable to talk to at that time due to the fact that hospital personnel were running tests on him to determine the extent of his injuries. Officers were able to talk to his son, daughter in law and two srandchildren that were present at the hospital upon officers arrival.

were advised of the details of the accident as the officers knew them at the time. They told officers that they were contacted by the hospital and they responded to the . They said they were able to talk to their father briefly. He told them that all he could remember was that he was south on and then turned onto Rd. He said that he doesn't remember anything after that. Officers inquired as to what Mr. and Mrs. Here doing in that area. Said that his mother and father would so for rides around the country side almost every night. He said that his mother grew up in and

that his father was very familier with the area. He said that his parents probably traveled the roads involved at least a 100 times. The probably traveled the roads involved at least a 100 times. that was in his parents vahicle and what steps he needed to take to set the animal medical attention for its injuries will be interviewed by one of the officers from Traffi Services at a later date. See the supplements to that effect.



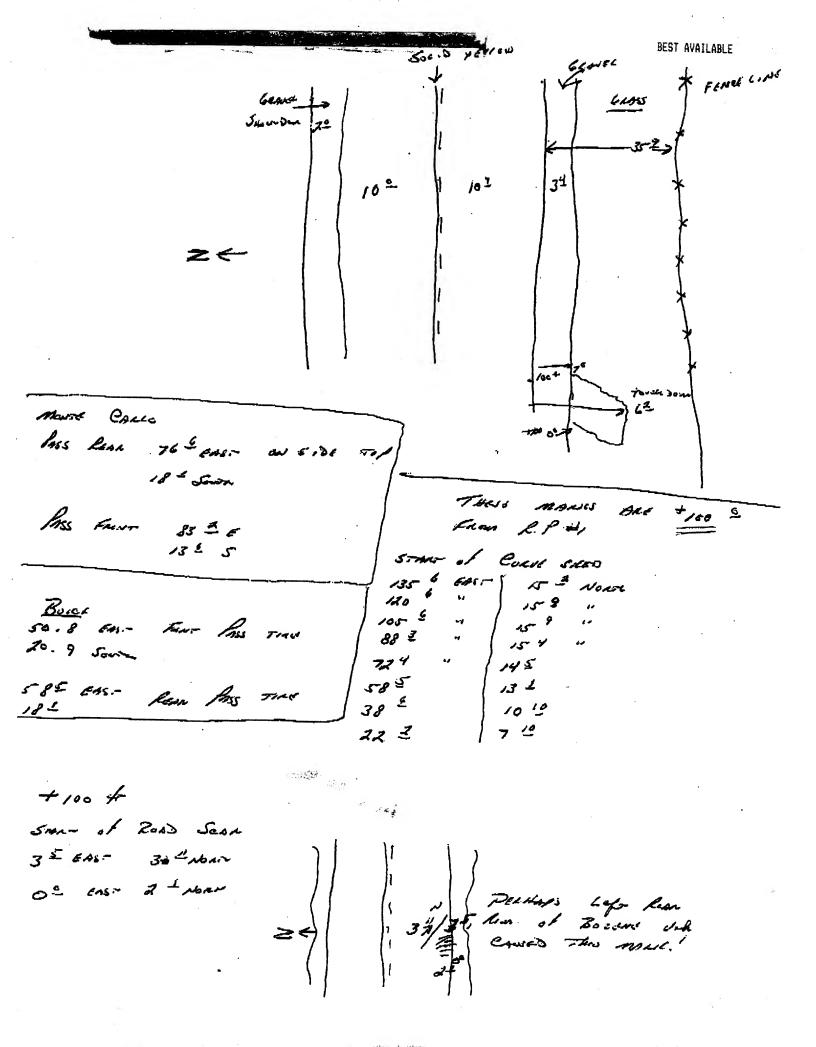


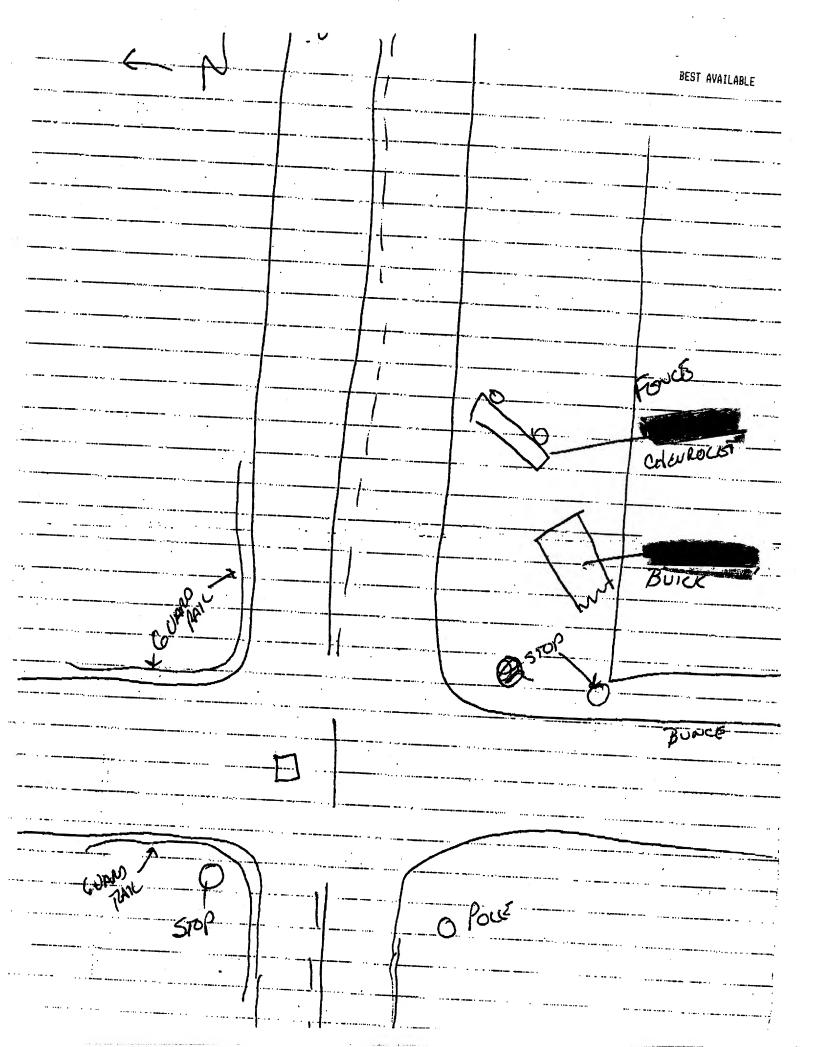


### FACSIMILE COVER SHEET

•				
то:			·.	
FROM: D	story			
SUBJECT:	Facsimile Transm	mission of Field	Mess where fich	3
This tran	et. Should you i	consist of 4 Fail to receive and the for retrans	pages, ny part there mission.	including of, kindly
Addressee	FAX No.	Addresso	r FAX NO.	
Special 1	instructions:			







C= 40 M/0 10 = R. 51 C= 40 Reference for 21 5/W COLNER 1/0 132